



REPORT OF THE
Hydro-Electric Power
Commission
OF ONTARIO
1945

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WILLIS MACLACHLAN



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Wills Maclachlan, '06

NOTE

The names recorded on the Frontispiece to this Annual Report as those of the staff of The Hydro-Electric Power Commission of Ontario who died on Active Service in the war of 1939 to 1945 have been compiled with painstaking care by the Commission.

The names recorded as of the Municipal Hydro Utilities were secured by enquiry from the managers and superintendents of the Municipal Hydro or Public Utility Commissions served by The Hydro-Electric Power Commission.

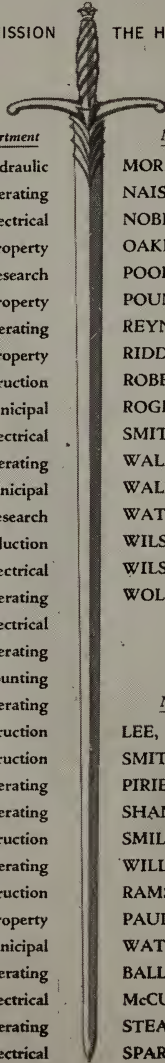
In neither group is it possible at the present time to be sure that every name has been recorded. The Commission would be grateful, therefore, to have any errors or omissions drawn to its attention.



IN MEMORY OF THOSE HYDRO EMPLOYEES WHO DIED ON ACTIVE SERVICE · 1939-1945

THE HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO

THE HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO



<u>Name</u>	<u>Department</u>
ANDERSON, BRUCE B.	Hydraulic
BATE, JOHN R.	Operating
BISHEFF, GEORGE E.	Electrical
BROWN, JOHN W.	Property
BROWN, LEONARD G.	Research
BUCKMASTER, JOHN	Property
BUDNICK, NICHOLAS	Operating
CARTER, RONALD R.	Property
CHARBONNEAU, MILTON	Construction
CLEMENTS, HERBERT C.	Municipal
COGGER, WALTER L.	Electrical
DWYER, WILLIAM S.	Operating
EDWARDS, ALFRED R.	Municipal
ELLIS, WILLIAM J.	Research
GREAR, HENRY W.	Production
HALL, REGINALD J. W.	Electrical
HARDING, ANDREW C.	Operating
HOLLINSWORTH, WILLIAM W.	Electrical
HOSTETLER, CHARLES W.	Operating
JANNEY, WILLIAM H.	Accounting
KILSBY, ALBERT C.	Operating
KINGSHOTT, GERALD	Construction
KINNEN, CALVIN	Construction
LaROSE, JOSEPH A. P.	Operating
LENNOX, ALLEN J.	Operating
LOVERING, MERVYN	Construction
MARTIN, T. RUSSELL	Operating
McCAUSLAND, WILLIAM	Construction
McCONVEY, CARL J.	Property
McLAUGHLIN, ANDREW	Municipal
McMULLEN, DOUGLAS J.	Operating
McROBERTS, CLARE	Electrical
MESSING, EARL E.	Operating
MILLER, JOHN A.	Electrical

<u>Name</u>	<u>Department</u>
MOREAU, BRUCE	Accounting
NAISMITH, DOUGLAS	Construction
NOBLE, NELSON A.	Electrical
OAKLEY, W. HERBERT	Operating
POOLE, ROBERT N.	Municipal
POUND, J. RUSSELL	Electrical
REYNOLDS, GEORGE G.	Electrical
RIDDELL, CHARLES J.	Operating
ROBERTSON, JOHN M.	Electrical
ROGERS, THOMAS A.	Operating
SMITH, THOMAS T.	Operating
WALKER, LeCLARE A.	Operating
WALL, FREDERICK V.	Filing
WATSON, WILLIAM J. C.	Municipal
WILSON, JOHN W.	Construction
WILSON, WILLIAM B.	Electrical
WOLCH, EDWARD B.	Construction

MUNICIPAL HYDRO UTILITIES

<u>Name</u>	<u>Municipality</u>
LEE, EDGAR J.	Almonte
SMITH, BASIL	Delhi
PIRIE, JOHN	Hamilton
SHANTZ, DANIEL	Kitchener
SMILLIE, WILLIAM E.	London
WILLIAMS, HIRAM	Oakville
RAMSAY, BALFOUR	Oakville
PAUL, A. B. GORDON	Port Arthur
WATKINSON, JAMES L.	Sudbury
BALLANTYNE, ROSWELL A.	Toronto
McCURRY, ALEXANDER	Toronto
STEANE, MAUD	Toronto
SPARKS, G. N. BRYEN	Windsor



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Ontario Hydro - General
Commission
THIRTY-EIGHTH ANNUAL REPORT

OF

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

FOR THE YEAR ENDED OCTOBER 31st

1945



ONTARIO

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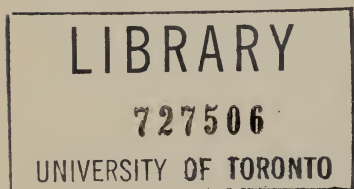
TORONTO

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1946

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO



T. H. HOGG, B.A.Sc., C.E., D.ENG CHAIRMAN
HON. GEORGE H. CHALLIES, PHM.B., M.L.A. COMMISSIONER
W. ROSS STRIKE, K.C. COMMISSIONER
OSBORNE MITCHELL SECRETARY



HEAD OFFICE

620 UNIVERSITY AVENUE - TORONTO 2, ONTARIO

CHAIRMAN'S LETTER OF TRANSMITTAL

To His Honour

THE HONOURABLE ALBERT MATTHEWS, LL.D.,

Lieutenant-Governor of Ontario

MAY IT PLEASE YOUR HONOUR:

The undersigned respectfully presents the Thirty-eighth Annual Report of The Hydro-Electric Power Commission of Ontario for the fiscal year which ended October 31, 1945.

The record of the Commission's work presented in this Annual Report relates to three principal fields—the co-operative municipal field, the field of rural supply, and the northern Ontario field. The first two cover the Commission's activities on behalf of the co-operative systems, and the last relates to its trusteeship of the Northern Ontario Properties on behalf of the Province. Throughout the various sections of the Report dealing broadly with physical operation of the plants, constructional activities and financial statements, these fields of activity are clearly differentiated.

The Report also presents for the calendar year 1945 financial statements and statistical data relating to the municipal electric utilities operating in conjunction with the co-operative systems for the supply of electrical service throughout the Province.

HYDRO IN 1945

For the second time in its history Hydro has withstood the test of war. Having successfully met the many and varied demands of Ontario's vast war production programme through nearly six years, Hydro turns to its peacetime tasks with assurance and vigour.

LOAD CONDITIONS SINCE VE-DAY

A remarkable feature of the Commission's operations during 1945 was that the demand for power following VE-Day, as measured in primary peak load of the Southern Ontario system, continued month by month to exceed the demand for the corresponding month of the previous year.

The Southern Ontario system served most of the war loads. In certain large industries served by the Commission there has, of course, been some recession of load but this was more than made up by the general increase in demand of the municipalities. This, itself, is the result of many factors. The lifting of war restrictions, the return to standard time for the winter months, the ending of the need for rigid economy in the use of electricity in the home have, at least for the time being, more than offset the reduction in the demand for war industry.

The main decreases in power use since the war have been in the large industries producing basic materials such as aluminum, magnesium, nickel products and abrasives. For much of this type of production little or no conversion problem is involved, but for a time at least the peacetime production will be much less than production for war, and may be temporarily affected also by the existence of stocks accumulated during the closing period of the war. In the general industrial factories which were converted to war production excellent progress is being made in reconversion, mostly to their former line of activity.

Nevertheless, it remains a fact that the total energy output handled by the Commission in 1945 was about 65 per cent greater than in the year 1938, the last complete year before the war started. It will be recalled that the industrial output even early in 1939 was in part utilized for what was then called a defence programme but which in fact was preparation for war.

OPERATING CONDITIONS 1944-45

The 1944-45 winter season was entered with water storages in many areas below satisfactory levels. Consequently, a careful regulation in the use of storage water was maintained through to the spring run-off. The spring freshet, which began early due to an unusually warm period in March, 1945, approximated normal expectancy and practically all storages were filled by the end of June. There was greater than average precipitation during the summer over most areas and storage water conditions at the beginning of the winter of 1945-46 were very satisfactory.

Operating conditions on the whole were quite favourable throughout the year. Nearly 80,000 horsepower of generating capacity was added, about 60,000 in Northern Ontario and 19,000 in the Thunder Bay district, bringing the aggregate normal capacity of the Commission's generating stations up to 1,720,000 horsepower. All generating plants were operated to the maximum extent, units being removed from service only to perform absolutely essential maintenance work. Except at a few of the smaller generating stations where adverse ice conditions are a normal experience each winter, no special trouble from ice-runs was experienced. No major failure of equipment occurred until December 21, 1945 when the Commission

DISTRIBUTION OF POWER TO SYSTEMS**PRIMARY POWER****20-MINUTE PEAK HORSEPOWER—SYSTEM COINCIDENT PRIMARY PEAKS**

System	1944	1945
	October	
Southern Ontario system.....	1,981,428	2,027,361
Thunder Bay system.....	122,252	124,397
Northern Ontario Properties.....	192,075	212,673
Total.....	2,295,755	2,364,431
	December	
Southern Ontario system.....	2,044,416	2,079,382
Thunder Bay system.....	119,303	127,078
Northern Ontario Properties.....	220,936	204,345
Total.....	2,384,655	2,410,805

PRIMARY AND SECONDARY POWER**20-MINUTE PEAK HORSEPOWER—SYSTEM COINCIDENT PEAKS**

System	1944	1945
	October	
Southern Ontario system.....	2,043,646	2,177,763
Thunder Bay system.....	127,212	136,863
Northern Ontario Properties.....	245,299	285,247
Total.....	2,416,157	2,599,873
	December	
Southern Ontario system.....	2,084,275	2,185,012
Thunder Bay system.....	135,523	140,483
Northern Ontario Properties.....	273,611	291,517
Total.....	2,493,409	2,617,012

lost the output of the 70,000 horsepower, 25-cycle unit at the DeCew Falls extension generating station. Damage to this unit necessitated the rewinding of the generator which was returned to service early in February, 1946.

Record Peak Loads

The total peak output of power from all sources, throughout the fiscal year ended October 31, 1945, was higher than in any former year. The maximum output was 2,608,000 horsepower and exceeded the maximum output of the previous year by 6.7 per cent, or about 163,000 horsepower.

The output for primary power purposes also reached levels never before attained. The maximum primary peak demands, which usually occur during the fall and winter months, occurred in the spring of 1945, reaching 2,470,000 horsepower. Compared with the maximum demand of the previous year this was an increase of 5.2 per cent or 122,000 horsepower. In all areas municipal and rural demands held well above the levels of the previous year but industrial demands receded somewhat following the ending of the war in Europe and in the Pacific.

Energy Production Again Reaches All-Time High

Total energy production from all sources was nearly 12,500,000,000 kilowatt-hours. This was 3.7 per cent or approximately 450,000,000 kilowatt-hours greater than the production during the previous year. Energy output for primary power purposes rose 3 per cent from 10,787,000,000 kilowatt-hours in 1944 to 11,110,000,000 kilowatt-hours in 1945.

Primary energy demands on all of the Commission's operating systems, Southern Ontario, Thunder Bay and the Northern Ontario Properties, were higher than the corresponding demands in the previous year. On the Southern Ontario system primary energy demands exceeded those of the previous year by 2 per cent, on the Thunder Bay system by 4.8 per cent and on the Northern Ontario Properties by 11.7 per cent. The increase on the Northern Ontario Properties however, was influenced by the taking over of the Northern Ontario Power Company's system in March, 1945; otherwise the primary demands of Northern Ontario would have shown a decrease of 3.0 per cent.

FINANCIAL OPERATING RESULTS

Revenues for the year ended October 31, 1945, were influenced by important changes in conditions. Relaxation of wartime power conservation restrictions which had been permitted at the close of the previous year stimulated total deliveries of power, especially in the earlier months of the year. With cessation of hostilities first in Europe and later in the Pacific area, utilization of power in special war industries was rather sharply curtailed, particularly in later months. The aggregate demands of consumers served through the co-operating municipalities, however, continued to advance throughout the year. Substantial reductions in interim rates were granted to a large number of municipalities as of January 1, 1945, affecting the Commission's revenues from this source to the extent in ten months of some \$1,300,000. Increase in load from supply of power to rural power districts was large, and despite a further reduction in rates to consumers, there was a moderate increase in revenues from that source.

The composite result of all factors was to produce revenues for the Southern Ontario system substantially unchanged in the aggregate from those of 1944. Costs for power, operation, maintenance and interest, were also very close to those of 1944. Even though the year's expenditures for maintenance cover a programme less extensive than is normally desirable, nevertheless the financial outcome of operations, with virtually stationary costs in conjunction with increased deliveries of power other than for war purposes, is to be regarded with satisfaction.

On the Thunder Bay system, rates for power customers, mines and interim rates to municipalities were all reduced. Revenues on the whole, however, due to moderately increased aggregate load, held up well. With the new generating unit coming into operation only towards the end of the year, costs of operation and interest in the aggregate were not greatly changed from those of 1944.

The Northern Ontario Properties' revenues reflect the sharp reduction in rates to mining customers that was put into effect January 1, 1945, together with a reduction in rates to municipalities. Curtailment of operations at many gold mines below the peace-time scale continued, and a substantial reduction in power demands for nickel production occurred towards the end of the year. Nevertheless, the exceptionally rapid rate of progress towards liquidation of capital liabilities that has characterized the Northern Ontario Properties in previous years was maintained, with only a small charge to surplus account. The acquisition of the undertaking of the Northern Ontario Power Company as at December 1, 1944, was a factor in making possible these favourable results.

Assistance to Small Municipalities With Higher Wholesale Unit Costs

During 1945, in accordance with the resolution adopted by the Ontario Municipal Electric Association in March, 1944, the Commission continued to limit to \$39 per horsepower the wholesale cost of power to small cost contract municipalities whose cost in accordance with their contracts made prior to 1945 would have exceeded this maximum. It is now possible to assess the results of this municipal co-operative action.

With the guaranteed lowering of wholesale cost, the Commission was enabled immediately to authorize the municipal Hydro utilities to put into effect a downward price adjustment in the rates to consumers which in 1944 and again in 1945, led to increased use, larger revenues, and lower unit costs. Until the wholesale cost per horsepower was reduced it was not possible to establish a rate or price structure for retail service low enough to encourage increased use.

When the scheme of reducing the wholesale cost to certain municipalities by means of a small levy per horsepower was put into effect in 1944, there were about 63 small municipalities whose wholesale cost of service in 1943 had been more than \$39 per horsepower. At the end of 1944 only 30 required assistance and at the end of 1945 for only 21 municipalities had the actual cost per horsepower to the Commission exceeded the \$39 maximum. Due to the decreasing assistance required each year the original levy of 2 cents per horsepower made in 1944 was sufficient to take care of the requirements for 1944 and 1945.

The prevailing conditions of heavy loads and low unit costs to all municipalities contributed to the results achieved and to the fact that they were obtained at so small a cost as to be scarcely noticeable in the general cost of power.

Financial Progress of Municipal Electric Utilities

The record of financial progress of the municipal electric utilities has some outstanding and indeed impressive features. The results as at December 31, 1945 are especially informative. Under ordinary conditions substantial new capital expenditures for extensions of utilities would be made each year. This tends to obscure in financial statements the progress with respect to liquidation of liabilities incurred for earlier additions to plant. For several years up to and including 1945, however, wartime restrictions limited capital expenditures to a minimum, and the rapidity with which the Hydro utilities are achieving debt-free status is evident.

The investment in plant by the 304 urban Hydro utilities exceeds one hundred million dollars. Because much of the plant has been financed by use of surplus and reserve funds, debenture issues to finance this capital investment have been made to the extent of only 55 per cent of the plant cost. Principal repayments on these debentures have equalled about 45 per cent of plant cost and further specific provision of sinking funds for this purpose equals nearly 5 per cent of plant cost, so that the net amount of debenture debt still outstanding equals less than 6 per cent of plant cost.

But the relation of plant investment to debentures is only part of the financial picture. As long as a utility is a going concern it is likely to have at the end of any year current assets and current liabilities. The liabilities of the 304 municipal utilities other than debentures are recorded as less than 3 per cent of the plant cost, and their current assets of a quickly realizable nature are equal to 26 per cent of plant cost. Thus the excess of current assets over current liabilities is more than four times as great as the remaining balance of debenture debt over accumulated sinking funds.

The figures cited are of course, simply a summation of 304 separate utilities. Considering them individually, 190 have actually paid off their

debenture liabilities completely, and 81 others have liquid assets sufficient to discharge their total liabilities. Even in the case of the remaining 33 utilities, the excess of total liabilities over quickly realizable assets amounts to only 12 per cent of their investment in plant.

CONSTRUCTION AND PLANNING

The year 1945 was characterized by intensive planning rather than by active construction. However, as a result of extensive studies certain major projects were authorized and in some cases work was started.

In the Niagara division of the Southern Ontario system the construction of a second unit at DeCew Falls was commenced during the summer of 1945. Certain provisions were made for this work at the time of construction of Unit No. 1. The new unit with a capacity of 70,000 horsepower, under 280 ft. head, will deliver its output to the Southern Ontario system. It is estimated that its construction will extend over a period of two years and that its cost will be about \$7,700,000.

To meet the immediate growth requirements in eastern Ontario, a 54,000 horsepower development at Stewartville on the Madawaska river has been authorized and its construction commenced. The head to be developed at this site, which is about eight miles southwest of Arnprior, is 150 feet. It is estimated to cost almost \$9,000,000 and that it will become available for use during the fall of 1947. The new development, in head and in capacity, is similar to that completed during the war, at Barrett Chute higher up the same river, where 56,000 horsepower in two units is developed under a head of 154 feet.

The third and most important hydro-electric development authorized by the Commission during 1945 and destined to increase the power resources of the Southern Ontario system, is that at the des Joachims site on the Ottawa river situated forty miles upstream from the town of Pembroke. The initial programme will comprise the installation of six units with a total capacity of 360,000 horsepower under a gross head of 135 feet, to be created by a dam across the river. Work will commence during 1946 and present plans call for its completion in 1949. Present estimate of cost for initial installation is \$51,000,000.

Associated with these new generating plants at Stewartville and des Joachims are important new transmission lines. From Stewartville to Oshawa a new 60-cycle transmission line will be constructed and will tie into Barrett Chute. This may cost in the neighbourhood of \$3,000,000. To carry the power generated at des Joachims, transmission lines about 235 miles long will be required to deliver the power to distribution centres at Burlington and Islington. These transmission lines are estimated to cost \$24,000,000.

The third transmission line of importance, authorized during 1945, is a 60-cycle line from Oshawa west to Scarborough and thence northerly to Barrie. This line will provide an important 60-cycle tie between the Eastern Ontario and Georgian Bay divisions.

At Scarborough a frequency-changer station with an initial unit of 25,000 kva will connect up with the above 60-cycle tie line and be connected by a 25-cycle tie to Leaside transformer station. The 60-cycle tie line is scheduled for completion during the summer of 1946 and the frequency-changer station, with the line to Leaside, in the summer of 1947.

Throughout southern Ontario the process of amalgamating and strengthening the great transmission networks goes steadily on. The great metropolitan district of Toronto with its suburbs and satellite towns demands constant revision and additions to its transformer and transmission facilities. In the St. Thomas district, around Sarnia and Essex county, in the Cornwall area on the St. Lawrence river, in the Eugenia district, in connection with the recently acquired Caledon Electric Company, and elsewhere in the area served by the Southern Ontario system, changes and additions are in progress.

Increased Power for Thunder Bay System

To increase power supplies for the Thunder Bay system a fourth unit was placed in service at Alexander generating station on October 1, 1945. This installation produces an additional 19,000 horsepower. The site and transformers have been purchased for a 15,000 kva, step-down transformer station in Port Arthur.

Careful consideration was given during the year to the sequence in which additional hydro-electric resources in the Thunder Bay district should be developed, having regard to the geographical distribution of the immediate known demands for additional supplies of Hydro power.

It was finally decided to develop a site on the Aguasabon river about seventy miles east of the Alexander generating station on the Nipigon river, and in close proximity to a pulp and paper mill to be constructed near the mouth of the Aguasabon river.

The hydro-electric development will have a capacity of 53,000 horsepower under a head of 300 feet and will cost about \$8,500,000. A transmission line from Aguasabon to Alexander to tie in with the Thunder Bay system network is estimated to cost \$1,500,000, and an additional circuit from Alexander to Fort William will be required costing approximately \$2,000,000.

Northern Ontario Activities

In northern Ontario, the Commission commenced, in March 1945, operation of the generating stations and other properties acquired under a

purchase agreement from the Northern Ontario Power Company, Ltd. These properties comprise eight hydro-electric plants with a total capacity of 60,000 electrical horsepower, complete with transmission lines and distribution facilities. Included also in the purchase was a hydro-pneumatic station utilized for production of compressed air for distribution to mining customers in the neighbourhood of Cobalt. Five of the hydro-electric plants, with a capacity of 35,000 horsepower, are situated on the Matabitchuan and Montreal rivers in the Cobalt area. The remaining three are on the Mattagami river in the Timmins area. It is anticipated that the acquisition of these sources of energy will enable the Commission to extend rural service in the area and also reduce the cost of power to the mines.

REDUCTIONS IN RATES AND REFUNDS TO CONSUMERS

During 1945 the Commission recommended and approved an adjustment in rates for domestic, commercial and power consumers in urban municipalities receiving power from the Commission. These reductions involved 255 municipal utilities, the consumers of which will benefit by an aggregate amount exceeding \$3,300,000 per annum.

The Commission also recommended and approved refunds to consumers in urban municipalities where the municipal Hydro surplus in the form of cash or bonds had accumulated during recent years in excess of the amounts estimated as required for plant construction, maintenance, etc., in the next few years. The total refunds to consumers amounted to more than \$485,000.

In addition the Commission adopted a uniform rate for most mining townsites served by the Northern Ontario Properties, the local distribution systems of which are owned and operated by the Commission. This will benefit the consumers by more than \$19,000 per annum.

The mines of northern Ontario continued to benefit by rate reductions announced last year, which came into operation on January 1, 1945. It is estimated that the total annual saving in power costs to the mines as a result of these rate reductions will exceed \$500,000.

Average Annual Consumption for Domestic Service

The average use of electricity by domestic consumers has become a recognized criterion of the standard of living. A recent statement made by the Edison Electric Institute announces that a new milestone of 100 kilowatt-hours per month average residential use of electricity has been reached in the United States.

The attainment of this level of consumption, however, is an old story in Ontario. This average level was attained in the 250 urban utilities then supplied under cost contracts by The Hydro-Electric Power Commission,

in the year 1926; in cities the 100 kilowatt-hour record was reached in 1925; in towns in 1929, and even in villages in 1937. But in Ontario, in the cities, average monthly consumption by domestic consumers has now passed the 200 kilowatt-hour mark. It was reached in 1941. In 1944 the average monthly consumption per domestic consumer in the 300 urban communities now supplied was more than 190 kilowatt-hours. In 1944 two cities and one town had an average consumption per domestic consumer exceeding 400 kilowatt-hours per month and no less than ten had an average consumption exceeding 250 kilowatt-hours per month.

The average cost per kilowatt-hour is very largely a function of use. It is nevertheless noteworthy that the average cost per kilowatt-hour to domestic consumers in the 300 urban municipalities operating their own Hydro utilities is only 1.15 cents.

RURAL ELECTRICAL SERVICE DURING WAR YEARS

The extension of rural electrical service in Ontario was a casualty of the war. However, the effect of war restrictions on progress was greatly ameliorated by the fact that in the five years previous to the end of 1940 there had been unusual activity in this branch of Hydro service. In the five years, 1936 to 1940, the Commission actually constructed 9,373 miles of rural primary line to supply a total of 55,000 consumers. This was an increase of 94 per cent in miles of line and 81 per cent in consumers. The relative increase in farm consumers was even greater; they more than doubled in this five year period. There can be little doubt that the progress made in rural electrification of farms, just prior to the war, had a beneficial effect upon food production in Ontario during the critical war years.

In 1941 the Dominion Metals Controller placed restrictions on the use of non-ferrous metals, and from September 1941 to April 1944, no rural primary lines were constructed except a few short connections for war purposes, less than 100 miles in all. In March 1944, the Metals Controller eased the restrictions by permitting short extensions in urgent cases for war production, but shortage of materials, equipment and labour prevented full advantage being taken of this improvement. On June 1, 1945, restrictions governing use of non-ferrous metals were cancelled and the Commission was able to proceed with construction to the extent that both labour and materials were available.

In 1944, therefore, 350 miles of primary line were completed and service was given to 8,050 new consumers. In 1945, 1,073 miles were constructed and there was a net increase in the consumers served of 11,442; of these however, 9,600 were served by short extensions from existing lines. These figures are for the fiscal years ending October 31, 1944 and 1945. In addition, the Commission purchased the Caledon Electric Company properties which included 59 miles of rural primary line serving more than 900 consumers.

The total mileage of lines constructed, or under construction, at the end of 1945 was 22,309 and after allowance for the usual adjustments, including transfer of some rural consumers to service from municipal utilities, the total rural consumers served or to be served number 159,608.

Increased Rural Consumption

Removal of power restrictions by the Dominion Power Controller on October 1, 1944, is reflected in the consumption of electricity by rural consumers. Notwithstanding a general decrease in power taken by certain war industries served by rural lines, the use of power in rural areas, stimulated by rate reductions, increased during the year by nearly 13 per cent. In August the power sold was approximately 132,600 horsepower, the highest load ever recorded in rural areas.

Rural Rate Reductions

The effect of the general rate reduction incorporated in the new uniform rural rate structure was so satisfactory that the Commission, after detailed study, considered it would be advantageous to make further reductions. The two reductions made are as follows:

- (a) The first block rate of 4 cents per kilowatt-hour was reduced to 3.5 cents per kilowatt-hour for all rural consumers. This reduction came into effect on May 1, 1945. It reduced the amount that consumers would pay by approximately \$300,000 per annum;
- (b) Power rates to industrial power consumers in rural districts have been reduced in all areas where it was practicable to do so. This reduction came into effect on January 1, 1946 and will benefit power consumers by approximately \$47,000 per annum.

Extensions and Increased Capacity

On October 31, 1945, there were on hand enough applications for rural service to warrant the construction of 5,630 miles of new primary line. Construction plans call for the erection in 1946 of about 2,000 miles, providing materials and equipment can be obtained.

There is, however, another limiting feature to the programme of extensions. During the war, even after certain restrictions had been eased, material was so short that in the interest of food production it was used for extensions rather than for improvements to service. Meantime, the load on all rural lines steadily increased and on many existing lines capacity became insufficient to supply satisfactory service. It is now imperative in many districts to increase the capacity of certain lines before satisfactory service can be given by means of further extensions.

RESEARCH AND TESTING

When victory was achieved in 1945 approximately one-third of the Commission's Laboratories' staff was engaged on work for the Dominion government having to do directly or indirectly with the war. This work covered a wide field, including besides research work, testing of electrical coils, testing of waxes, adhesives, packings, insulants and many other items.

With the ending of hostilities these activities ceased and the staff thus made available was transferred to the many pressing research problems of the Commission, deferred during the war years. Work was expanded in the fields of grounding, insulation, electronics, stress analysis and the treatment of wood poles, to mention some of the more important.

The Commission's post-war programme has also been responsible for much new work. Field surveys for the purpose of locating suitable sources of concrete aggregate have been carried out in several places where major construction projects are planned. Existing structures have been inspected and tested to obtain data on service behaviour as a guide to future design and construction. New materials and methods developed during the war are being studied to determine whether they can be usefully applied in the Commission's work.

The Hydro undertaking of Ontario is greatly benefited by the efforts of engineers and scientists everywhere who contribute to the world's scientific knowledge. The scientific staff of the Commission recognizes its obligation to add something to this knowledge and the Commission encourages its staff to participate actively in the work of scientific societies, standardizing organizations and other bodies by the presentation of papers, the contribution of scientific data and the preparation of standard specifications.

EFFICIENT USE—ADEQUATE WIRING—BETTER LIGHTING

The staff of the Commission formerly engaged in promotional activities continued to encourage the most efficient use of electricity by all classes of consumers. Guidance was given to many industrial consumers in efficient power application, and lighting plans were supplied for schools, factories, public buildings, stores, offices and streets. Information was made available calling attention to the varied operations and war work of the Commission and urging consumers to plan their power needs well in advance.

In the rural field, activities generally were of an educational nature. Farmers were asked to plan for adequate wiring of their farm premises. Booklets were distributed to aid farmers to operate more efficiently their existing electrical equipment. Efficient methods of homemaking with Hydro were explained to domestic consumers.

Hydro motion pictures were shown to more than 500 audiences throughout the Province, comprising service clubs, schools and other organizations, with an aggregate attendance of approximately 100,000. A new educational motion picture was produced, entitled "More Power to the Farmer." This film stresses the need for safe, adequate wiring.

THE COMMISSION AND ITS EMPLOYEES

Some 1,200 employees of the Commission joined the services. Of these 350 have already returned to Hydro work and about 75 others are taking educational courses or have taken other positions. All former employees who enlisted from the Commission's service are being reinstated if they so desire. In many cases it has been found possible to re-employ them in better positions. Former employees who might benefit by taking courses sponsored by the Training Division of the Department of Veterans' Affairs are encouraged to do so and positions are held for them for a period of one year after discharge.

In the expanding construction programme of the Commission preference is given to veterans and during the past year the Commission has employed some 400 ex-servicemen who were not in the Commission's employ prior to enlistment.

Linemen's Training School

The Commission, in cooperation with the Ontario Municipal Electric Association, is operating a school to train linemen. It is estimated that the Commission and the municipalities will need in the next two years some 300 linemen for post-war construction work. The men selected are veterans and after two or three months' introductory practical work are given three months' training—two months' theoretical work in the school and one month's practical work in the field. The school is situated on the outskirts of Toronto and the men live in camp and are paid while taking training. The results to date are very promising.

Resuscitation Training

For almost thirty years training in artificial respiration has been carried on among the employees of the Commission and field employees are required to practice by approved methods at least once a month. During the past year three Canadian Electrical Association resuscitation medals and one President's medal of the National Safety Council have been awarded to groups of employees for the successful resuscitation from electrical shock of three fellow employees. In one case a member of the public was saved from drowning by artificial respiration.

The hazard of electric shock is ever present in an electric public utility and for this reason training and practice in manual artificial respiration have been closely followed with excellent results.

CAPITAL INVESTMENT AND RESERVES

Capital Investment

The total capital investment of The Hydro-Electric Power Commission of Ontario in power undertakings is \$375,361,480.44 exclusive of government grants in respect of construction of rural power districts' lines (\$22,022,423.79) and the investment of the municipalities in distributing systems and other assets is \$146,282,082.81, making in power undertakings a total investment of \$521,643,563.25.

The following statement shows the capital invested in the respective systems, properties and municipal undertakings, etc:

Southern Ontario system (including Hamilton street railway).....	\$292,256,223.30
Thunder Bay system.....	21,329,829.55
Office and service buildings.....	3,749,526.15
Construction plant and inventories.....	3,976,820.69
Total capital investments in co-operative systems.....	\$321,312,399.69
Northern Ontario Properties—Operated by H-E.P.C. on behalf of the Province of Ontario.....	53,653,771.79
Northern Ontario Properties—Construction plant and inventories.....	395,308.96
Total Commission capital investments.....	375,361,480.44
Municipalities' distribution systems.....	106,346,101.06
Other assets of municipal Hydro utilities.....	39,935,981.75
Total.....	\$521,643,563.25

Reserves of Commission and Municipal Electrical Utilities

The total reserves of the Commission and the municipal electrical utilities for depreciation, contingencies, stabilization of rates, sinking fund and insurance purposes, amount to \$382,287,778.39, made up as follows:

Southern Ontario system (including Hamilton street railway).....	\$202,650,549.68
Thunder Bay system.....	13,774,141.71
Office and service buildings and equipment.....	1,675,607.48
Total reserves in respect of co-operative systems' properties.....	\$218,100,298.87
Northern Ontario Properties.....	21,704,191.77
Fire insurance reserve.....	153,819.50
Miscellaneous reserves.....	562,685.75
Employers' liability insurance, and staff pension reserves.....	11,762,476.98
Total reserves of the Commission.....	\$252,283,472.87
Total reserves and surplus of municipal electric utilities.....	130,004,305.52
Total Commission and municipal reserves.....	\$382,287,778.39

REVENUE OF COMMISSION

The revenue of the Commission at interim rates from the municipal utilities operating under cost contracts, from customers in rural power districts and from other customers with whom—on behalf of the municipalities—the Commission has special contracts, all within the Southern Ontario and Thunder Bay systems, aggregated \$51,385,412.45. The revenue of the Commission from customers served by the Northern Ontario Properties, which are held and operated in trust for the Province, was \$6,154,893.74, making a total (excluding \$233,941.70 of Northern Ontario Properties revenue transferred to Thunder Bay system in respect of power supplied) of \$57,306,364.49.

Summarized operating results of these co-operative systems and rural power districts and of the Northern Ontario Properties, follow:

Summarized Operating Results

SOUTHERN ONTARIO SYSTEM—THUNDER BAY SYSTEM RURAL POWER DISTRICTS

Revenue: amount received from or billed against municipalities and other customers.....	\$45,452,959.77	
Revenue from customers in rural power districts (retail).....	5,932,452.68	
Total revenue, systems and rural.....	\$51,385,412.45	
Operation, maintenance, administration, interest and other current expenses.....	\$32,101,138.25	
Provision for reserves—		
Renewals.....	\$2,757,325.25	
Contingencies and obsolescence.....	11,207,302.28	
Stabilization of rates.....	(48,619.76)	
Sinking fund.....	3,193,387.70	
	17,109,395.47	
		49,210,533.72
Balance.....		\$2,174,878.73

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario
In trust for the Province of Ontario

Revenue: amount received from or billed against municipalities and other customers.....	\$6,154,893.74	
Operation, maintenance, administration, interest and other current expenses.....	\$3,942,037.26	
Provision for reserves—		
Renewals.....	\$ 455,409.98	
Contingencies and obsolescence.....	480,161.45	
Sinking fund.....	1,496,103.48	
	2,431,674.91	
		6,373,712.17
Balance.....		\$218,818.43

COMPARATIVE FINANCIAL STATEMENTS 1944-1945**Cooperative Systems of the Commission****SOUTHERN ONTARIO SYSTEM**

Embracing Niagara, Georgian Bay and Eastern Ontario divisions

	1944	1945
OPERATING EXPENSES AND FIXED CHARGES	\$ c.	\$ c.
Power purchased.....	10,807,512. 45	10,832,402. 63
Operation, maintenance and administration.....	7,954,180. 27	8,212,118. 86
Interest.....	11,654,752. 45	11,696,222. 61
Provision for renewals.....	2,573,497. 34	2,590,685. 26
Provision for contingencies and obsolescence.....	9,430,542. 93	10,640,505. 26
Sinking fund.....	2,991,625. 22	2,993,496. 03
TOTAL COST OF POWER.....	45,412,110. 66	46,965,430. 65
REVENUE from municipalities at interim rates, from rural consumers and from private customers under contract rates	48,892,351. 62	49,083,310. 70
Net balance credited to municipalities under cost contracts....	3,480,240. 96	2,117,880. 05

THUNDER BAY SYSTEM

	1944	1945
OPERATING EXPENSES AND FIXED CHARGES	\$ c.	\$ c.
Operation, maintenance and administration.....	405,465. 42	493,229. 05
Interest.....	926,937. 27	867,165. 10
Provision for renewals.....	165,103. 09	166,639. 99
Provision for contingencies and obsolescence.....	548,381. 71	566,797. 02
Provision for stabilization of rates.....	33,793. 90	(48,619. 76)
Sinking fund.....	198,242. 32	199,891. 67
TOTAL COST OF POWER.....	2,277,923. 71	2,245,103. 07
REVENUE from municipalities at interim rates, from rural consumers and from private customers under contract rates	2,364,893. 89	2,302,101. 75
Net balance credited to municipalities under cost contracts....	86,970. 18	56,998. 68

MUNICIPAL ELECTRIC UTILITIES

The following is a summary of the year's operation of the local electric utilities conducted by municipalities receiving power under cost contracts with the Commission:

Total revenue collected by the municipal electric utilities.....		\$43,702,261.90
Cost of power.....	\$26,149,578.07	
Operation, maintenance and administration.....	7,309,690.52	
Interest.....	703,359.39	
Sinking fund and principal payments on debentures.....	1,226,578.43	
Depreciation and other reserves.....	3,886,947.26	
Total.....		39,276,153.67
Surplus.....		\$ 4,426,108.23

With regard to the local Hydro utilities operating under cost contracts, the following statements summarize for each of the co-operative systems administered by the Commission, the financial status and the year's operations as detailed in Section X of the Report.

SOUTHERN ONTARIO SYSTEM

The total plant assets of the Southern Ontario system utilities amount to \$101,855,073.37. The total assets, including an equity in the H-E.P.C. of \$71,015,455.54 aggregate \$211,029,500.92. The reserves and surplus accumulated in connection with the local utilities, exclusive of the equity in the H-E.P.C., amount to \$124,368,748.80, an increase of \$9,157,642.70 during the year 1945. The percentage of net debt to total assets is 6.9, a reduction of 0.4 per cent.

The total revenue of the municipal electric utilities served by this system was \$42,518,703.28, an increase of \$865,285.97 as compared with the previous year. After meeting all expenses in respect of operation, including interest, setting up depreciation and other reserves amounting to \$3,826,193.11 and providing \$1,221,323.59 for the retirement of instalment and sinking fund debentures, the total net surplus for the year for the municipal electric utilities served by the Southern Ontario system amounted to \$4,262,101.59, as compared with \$3,729,360.56 the previous year.

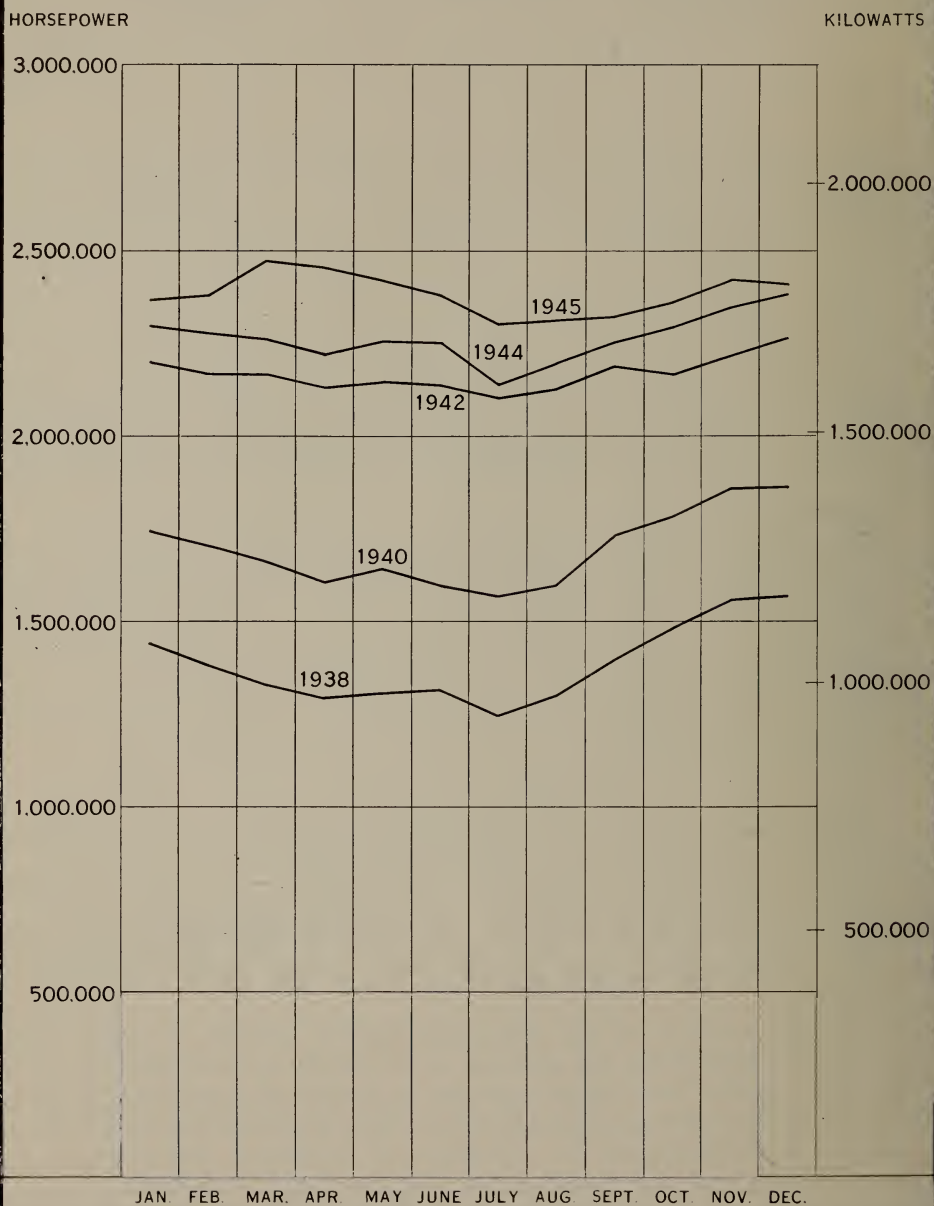
THUNDER BAY SYSTEM

The total plant assets of the Thunder Bay system utilities amount to \$2,832,850.28. The total assets, including an equity in the H-E.P.C. of \$3,986,895.84, aggregate \$8,180,939.77. The reserves and surplus accumulated in connection with the local utilities, exclusive of the equity in H-E.P.C., amount to \$3,818,209.26 an increase of \$104,455.75 during the year 1945. The percentage of net debt to total assets is 6.1, a reduction of 0.1 per cent.

The total revenue of the municipal electric utilities served by this system was \$1,183,558.62, an increase of \$1,741.61 as compared with the previous year. After meeting all expenses in respect of operation, including interest, setting up depreciation and other reserves amounting to \$60,754.15 and providing \$5,254.84 for the retirement of instalment and sinking fund debentures, the total net surplus for the year for the municipal electric utilities served by the Thunder Bay system amounted to \$164,006.64, as compared with a net surplus of \$172,198.32 for the previous year.

HYDRO POWER LOADS THROUGH THE WAR YEARS

PRIMARY PEAK LOADS — ALL SYSTEMS



HYDRO MOVES FORWARD

In closing this review of the year which brought final victory, it is satisfactory to recall that during the whole period of the war no war industry in Ontario lacked sufficient power for its needs and no major breakdown curtailed essential production.

The Commission entered the war with adequate reserves of power and with future deliveries planned for normal growth several years ahead. The tremendous expansion in munitions of war which accompanied the adverse war trend of the early years quickly absorbed all Hydro power reserves. As the war progressed the Commission, by construction and purchase, augmented its power supplies to keep pace with demand, trying always to limit new construction to a minimum in conformity with the national policy of husbanding the limited supplies of men and materials.

With victory achieved the Commission turns with confidence from the problems of war to the problems of peace.

Within the orbit of the municipal environment, where Hydro service is chiefly utilized, much may be done to steady and guide the movements that are at present causing difficulties as the people of all nations restlessly strive for security and stability. Those associated with Hydro utility administration can accomplish much by grasping the opportunities for service, by making improvements in urban and farm homes, by friendly helpfulness in business and industry, and particularly by active participation in all worthwhile plans for the betterment of Ontario communities.

In all these things Hydro stands ready to lend a helping hand by providing at very low cost the electrical service which is a basic essential of all modern wealth producing activity, and the ingredient which by well directed work in factory and mine, forest and farm will help bring to Canada an era of peace and prosperity. Let us then move forward with Hydro.

Respectfully submitted,

T. H. HOGG,

Chairman

TORONTO, ONTARIO, MARCH 31, 1946.

T. H. HOGG, ESQ., B.A.Sc., C.E., D.ENG.,

Chairman, The Hydro-Electric Power Commission of Ontario,

Toronto, Ontario.

Sir:

I have the honour to submit, herewith, the Thirty-eighth Annual Report of The Hydro-Electric Power Commission of Ontario for the fiscal year which ended October 31, 1945. This report covers the operations of the Commission with regard to the supply of power to, or on behalf of, the partner Municipalities of the Co-operative Systems, as well as the administration of the Northern Ontario Properties, which are held and operated by the Commission in trust for the Province of Ontario.

I have the honour to be, Sir,

Your obedient servant,

OSBORNE MITCHELL,

Secretary.



HYDRO ON THE FARM — Above: A farm workshop.
Below: Safety and security around the farm buildings





Alexander Power Develop-
ment—Nipigon river

Left:

Logchute discharging
pulpwood

Below:

Flash boards on dam

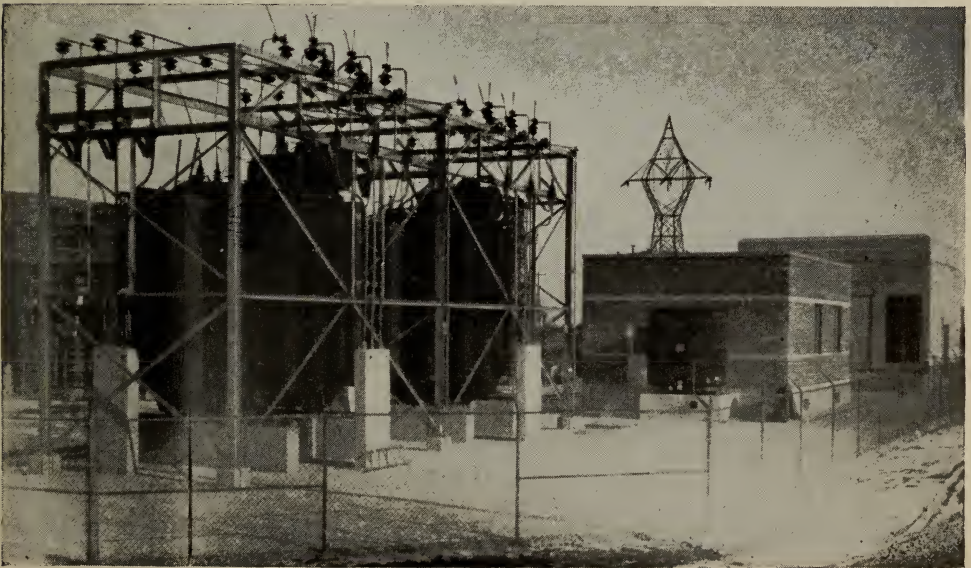
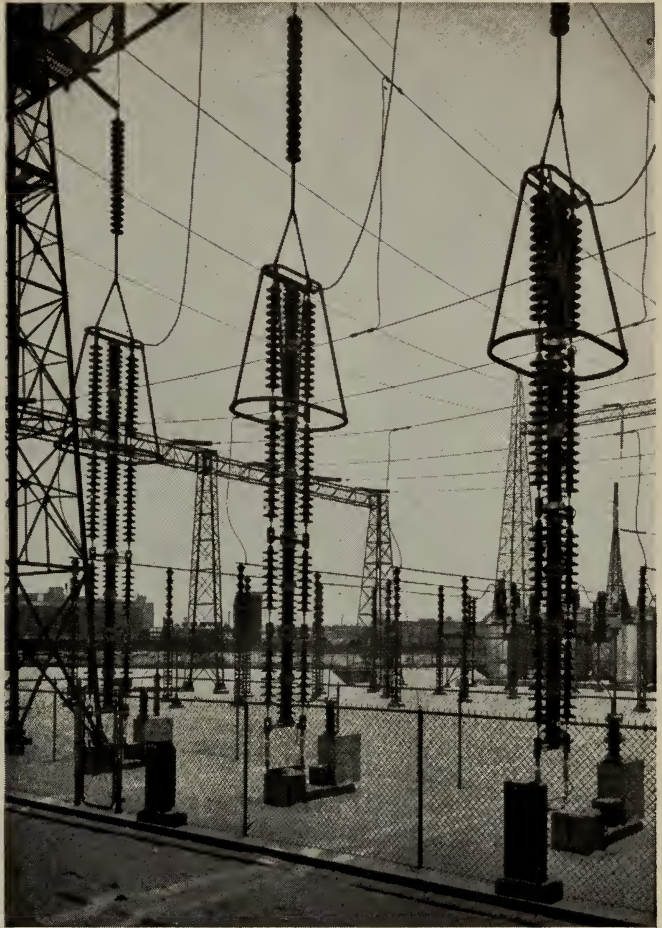




At Right: Suspended
220,000-volt lightning
arresters. Toronto - Lea-
side transformer station.



Below: Essex condenser
station showing two
transformers and bus
structure; starting auto-
transformer; switching
building and at right
background, 40,000 kva
synchronous condenser
building





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When, in 1944, shortage of lumber became acute, discarded poles were converted into usable lumber. During 1945 nearly eight hundred old poles were collected from districts near Hamilton and sawn into lumber and square timber, chiefly used for crating and for permanent cribs and booms in DeCew Falls forebay. Other saw logs of pine and oak were obtained from transmission line operations





MORE POWER FOR THE THUNDER BAY DISTRICT — The fourth unit adds 19,000 horsepower to the Alexander generating station making total capacity 73,000 horsepower



NEW INDUSTRIES FOR ONTARIO — Above: Nylon plant of Canadian Industries Limited. Below: Tube drawing plant of Aluminum Company of Canada — both at Kingston, Ontario



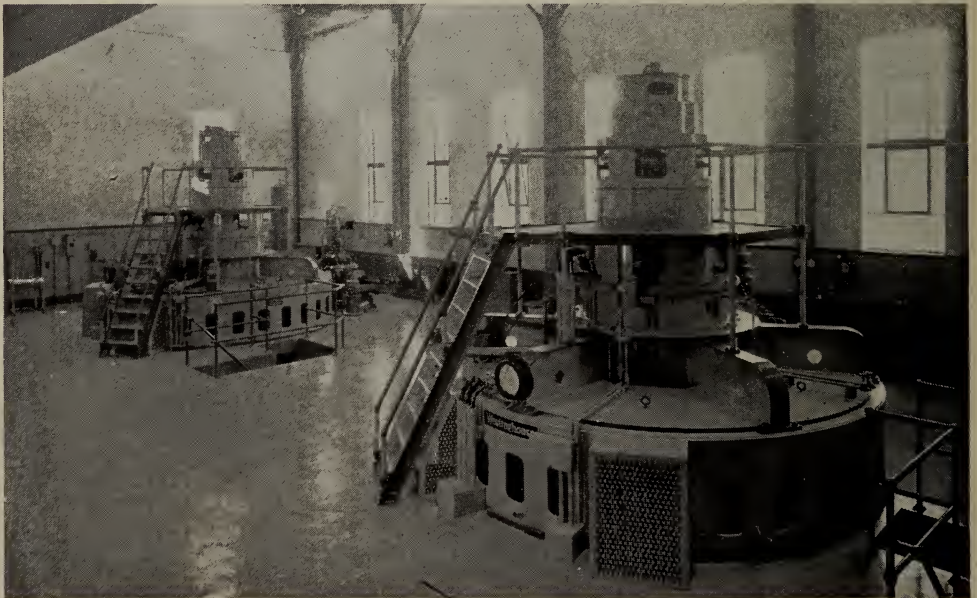


MORE POWER FOR THE FARMERS OF ONTARIO — Training at the school for linemen. Above: Instruction in pole climbing technique. Below: Knots and splices explained





A Hydro substation in keeping with its residential environment.
Strouds Lane, Hamilton



GOOD HOUSEKEEPING — Clean floors and well kept powerhouses contribute to efficient operation and safety. Big Eddy generating station

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THIRTY-EIGHTH ANNUAL REPORT
OF
**The Hydro-Electric Power Commission
of Ontario**

FOREWORD
and
Guide to the Report

THE Hydro-Electric Power Commission of Ontario administers a co-operative municipal-ownership enterprise, supplying power throughout the Province of Ontario. The Commission was created in 1906 by special act of the Legislature and followed investigations by advisory commissions appointed as a result of public agitation to conserve the water powers of Ontario as a valuable asset of the people and to provide a more satisfactory supply of low-cost power in southern Ontario. In 1907 the Power Commission Act (7-Edward VII Ch. 19) was passed amplifying and extending the Act of 1906, and this Act—modified by numerous amending acts which now form part of the Revised Statutes of Ontario, 1937, Chap. 62, and subsequent amending Acts—constitutes the authority under which the Commission operates.

The Hydro-Electric Power Commission of Ontario consists of a Chairman and two Commissioners, all of whom are appointed by the Lieutenant-Governor-in-Council to hold office during pleasure. One of the Commissioners must be a member of the Executive Council and two may be members.

In 1909, work was commenced on a comprehensive transmission system and by the end of 1910 power was being supplied to several municipalities.

The Commission has now been supplying electrical energy for more than thirty-five years and the Report contains diagrams depicting the growth of the enterprise. During this period the costs of electricity to the consumer have been substantially reduced and the finances of the enterprise have been established on a secure foundation.

At the end of 1945 the Commission was serving 922 municipalities in Ontario. This number included 26 cities, 124 towns and mining townsites, 300 villages and police villages and 472 townships. With the exception of 14 suburban sections of townships known as "voted areas," the townships and 120 of the smaller villages are now served as an amalgamated rural division of Hydro service with a uniform rate structure. Thus, no matter where rural service is given in Ontario by the Hydro, the rural consumer for the same class of service with the same consumption of electricity, pays the same amount on his quarterly bill.

Financial Features of Co-operative Systems

The basic principle governing the financial operations of the undertaking is, that electrical service be given by the Commission to the municipalities

and by the municipalities to the ultimate consumers at cost. Cost includes not only all operating and maintenance charges, interest on capital investment and reserves for renewals or depreciation, for obsolescence and contingencies, and for stabilization of rates, but also a reserve for sinking fund or capital payments on debentures.

The undertaking from its inception has been entirely self-supporting and no contributions have been made from general taxes except in connection with service in rural power districts. In this case, the Province, in pursuance of its long established policy of assisting agriculture and with the approval of the urban citizens, assists extension of rural electrical service by a grant-in-aid of the capital cost and in other ways as specified and detailed in the Report.

As the principle of "service at cost" is radically different from that obtaining in private organizations, where profit is the governing feature, it naturally results in different and in some ways unique administrative features.

The undertaking as a whole involves two distinct phases of operations as follows:

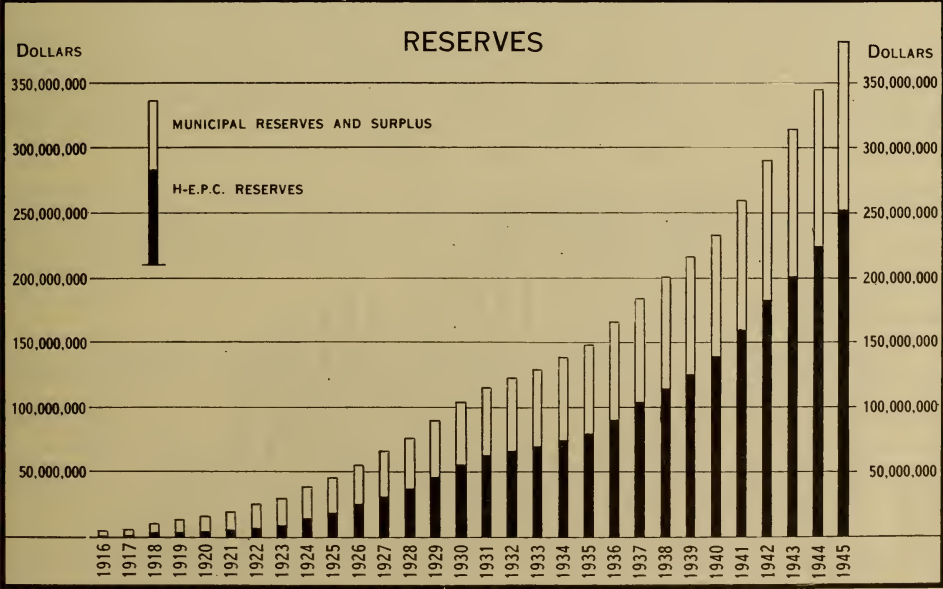
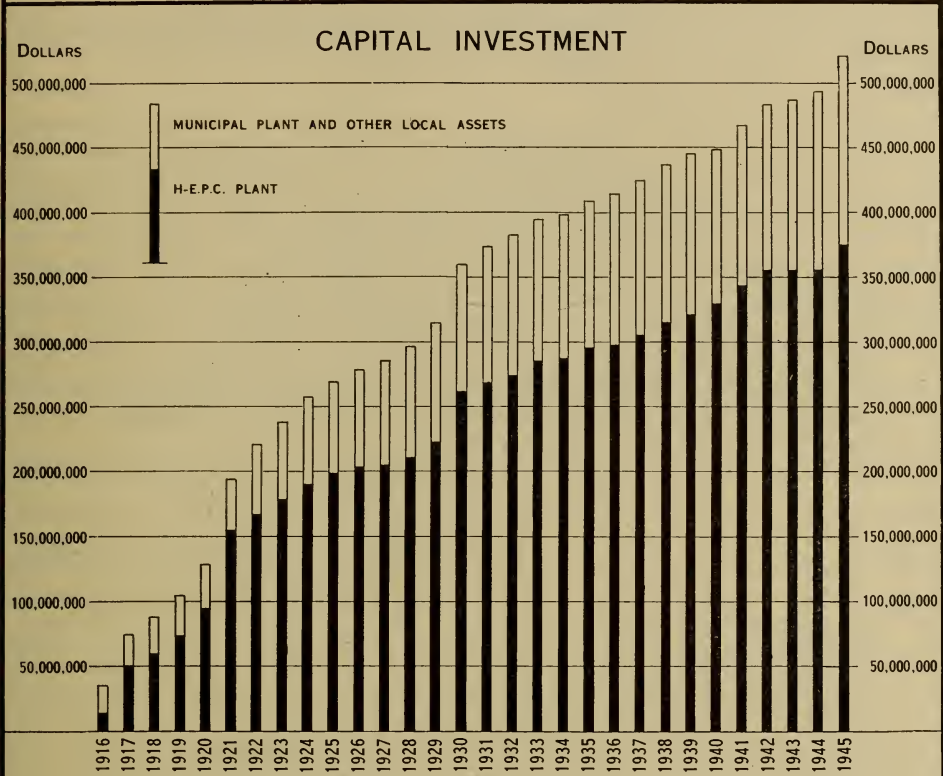
The *First* phase of operations is the provision of the electrical power—either by generation or purchase—and its transformation, transmission and delivery in *wholesale* quantities to individual municipal utilities, to large industrial consumers, and to rural power districts. This phase of the operations is performed by The Hydro-Electric Power Commission of Ontario as trustee for the municipalities acting collectively in groups or "systems", and the financial statements relating to these collective activities of the municipalities are presented in Section IX of the Report. Each system of municipalities, as provided in *The Power Commission Act*, forms an independent financial unit and the accounts are therefore segregated and separately presented for each system. In order, however, that there may be a comprehensive presentation of the co-operative activities of the undertaking as a whole, there are presented, in addition, for the two main systems and miscellaneous co-operative activities, a balance sheet of assets and liabilities, a statement of operations, a tabulation of fixed assets, and summary combined statements respecting the various reserves.

The *Second* phase of operations is the *retail* distribution of electrical energy to consumers, within the limits of the areas served by the various municipal utilities and throughout the rural areas of the Province. In the case of the consolidated rural power districts The Hydro-Electric Power Commission not only provides the power at wholesale, but also—on behalf of the respective individual townships—attends to all physical and financial operations connected with the distribution of energy at retail to the consumers within the rural power districts. Summary financial statements relating to rural service are presented in Section IX of the Report, and a general report on their operation is given in Section IV.

In the case of cities, towns, many villages and certain thickly populated areas of townships, retail distribution of electrical energy provided by the Commission is in general conducted by individual local municipal utility commissions under the general supervision of The Hydro-Electric Power Commission of Ontario. The balance sheets, operating reports and statistical data relating to the individual urban electrical utilities are presented in Section X of the Report.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

THIRTY YEARS RECORD—ALL SYSTEMS



For the Northern Ontario Properties held and operated by the Commission in trust for the Province there are also presented in Section IX financial statements including a balance sheet, an operating account, and statements respecting reserves and capital expenditures.

Further details respecting administration and explanations of the financial tables presented in the Report are given in the introductions to sections IX and X on pages 111 and 193.

Co-operative Systems Operating

From time to time in accordance with provisions of *The Power Commission Act* various groups of municipalities have been co-ordinated to form systems for the purpose of obtaining power supplies from convenient sources. In some cases these small systems grew until their transmission lines interlocked with those of adjacent systems and it proved beneficial to consolidate the transmission networks and the financial and administrative features. Early in 1944 the three systems serving southern Ontario, the Niagara, Georgian Bay and Eastern Ontario systems, were amalgamated to form the *Southern Ontario System* and financially the amalgamation was made retroactive to apply to the fiscal year 1942-43. The three former systems are now known as *divisions* of the Southern Ontario system.

The Niagara division embraces municipalities in all the territory between Niagara Falls, Hamilton and Toronto on the east and Windsor, Sarnia and Goderich on the west. It is served with 25-cycle power supplied from plants on the Niagara river, supplemented with power transmitted from generating plants on the Ottawa river and with power purchased from Quebec companies.

The Georgian Bay division comprises municipalities in that part of the Province which surrounds the southern end of Georgian Bay and lies to the north of the territory served by the Niagara division. It includes the districts surrounding lake Simcoe and extends as far north as Huntsville in the Lake of Bays district and south to Port Perry. Its power supplies, 60 cycles, are derived chiefly from local water power developments.

The Eastern Ontario division serves all of Ontario east of the areas comprising the Georgian Bay and the Niagara divisions. It includes the districts of Central Ontario, St. Lawrence, Rideau, Ottawa and Madawaska; formerly separate systems. Its power supplies, 60 cycles, are from local developments supplemented by purchases from other sources.

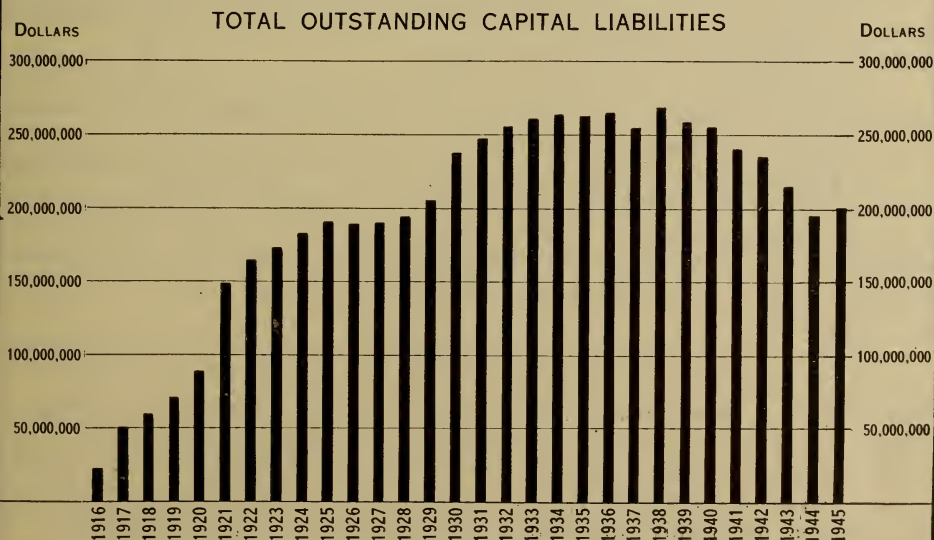
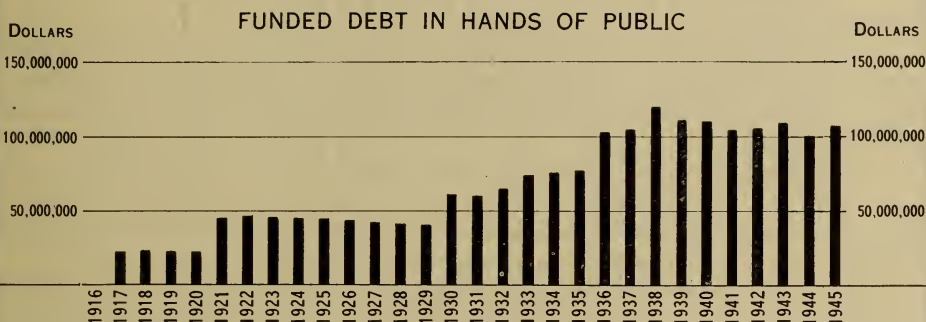
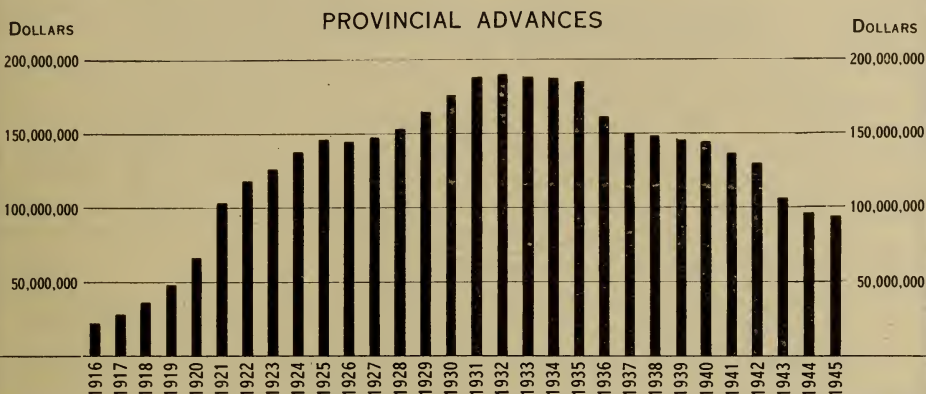
The Thunder Bay System comprises the cities of Port Arthur and Fort William, adjacent rural sections, the village of Nipigon, and the mining district of Longlac. Two developments on the Nipigon river supply 60-cycle power.

Northern Ontario Properties

In addition to its operations on behalf of the partner municipalities, the Commission, under an agreement with the Province, holds and operates the Northern Ontario Properties in trust for the Province. For the purposes of financial administration these properties are treated as one unit. The principal areas in the vast territory of northern Ontario at present receiving service are the *Abitibi District* comprising the territory served by 25-cycle power from the Abitibi Canyon development, together with a small area in the southern portion of the district of Sudbury in which mining properties are served with 60-cycle power; the *Timiskaming District* comprising the

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

PROVINCIAL ADVANCES AND FUNDED DEBT



drainage basins of the Matabitchuan river, the Montreal river and a portion of the Mattagami river with eight generating plants, four 25 cycle and four 60 cycle; the *Sudbury District* comprising the city of Sudbury and the adjoining mining area known as Sudbury Basin; the *Nipissing District* centering around the city of North Bay on the shore of lake Nipissing; the *Patricia District* comprising the territory within transmission distance from the Ear Falls development at the outlet of lac Seul on the English river including the Red Lake mining area, and the territory immediately north of lake St. Joseph in the territorial district of Patricia served with power from a development at Rat Rapids on the Albany river; and the *Rainy River district* which derives its power from the Thunder Bay system. Included in the Northern Ontario Properties are rural districts on Manitoulin island, and others adjacent to the communities served in the various districts of northern Ontario. Power supplies are 60 cycle except from Abitibi canyon development, and four plants in Timiskaming district.

The geographic boundaries of the various systems and districts are shown on the maps of transmission lines and stations at the back of the Report.

The power supplies for the systems and Northern Ontario districts are listed in the first table of Section II of the Report on pages 16 and 17.

The Annual Report

The table of contents, pages xxxiii and xxxiv lists the matters dealt with in the Report. At the end of the Report there is a comprehensive index. To those not conversant with the Commission's Reports, the following notes will be useful.

In Section II, pages 15 to 35, dealing with the operations of the systems, are a number of diagrams showing graphically the monthly loads on the several systems and districts. Tables are also presented showing the amounts of power taken by the various municipalities during the past two years.

The rural distribution work of the Commission has proved of widespread interest and special reference to this is made in Section IV on pages 51 to 72.

In Sections VI and VII will be found information respecting progress of work on new power developments and on transmission system extensions, together with photographic illustrations.

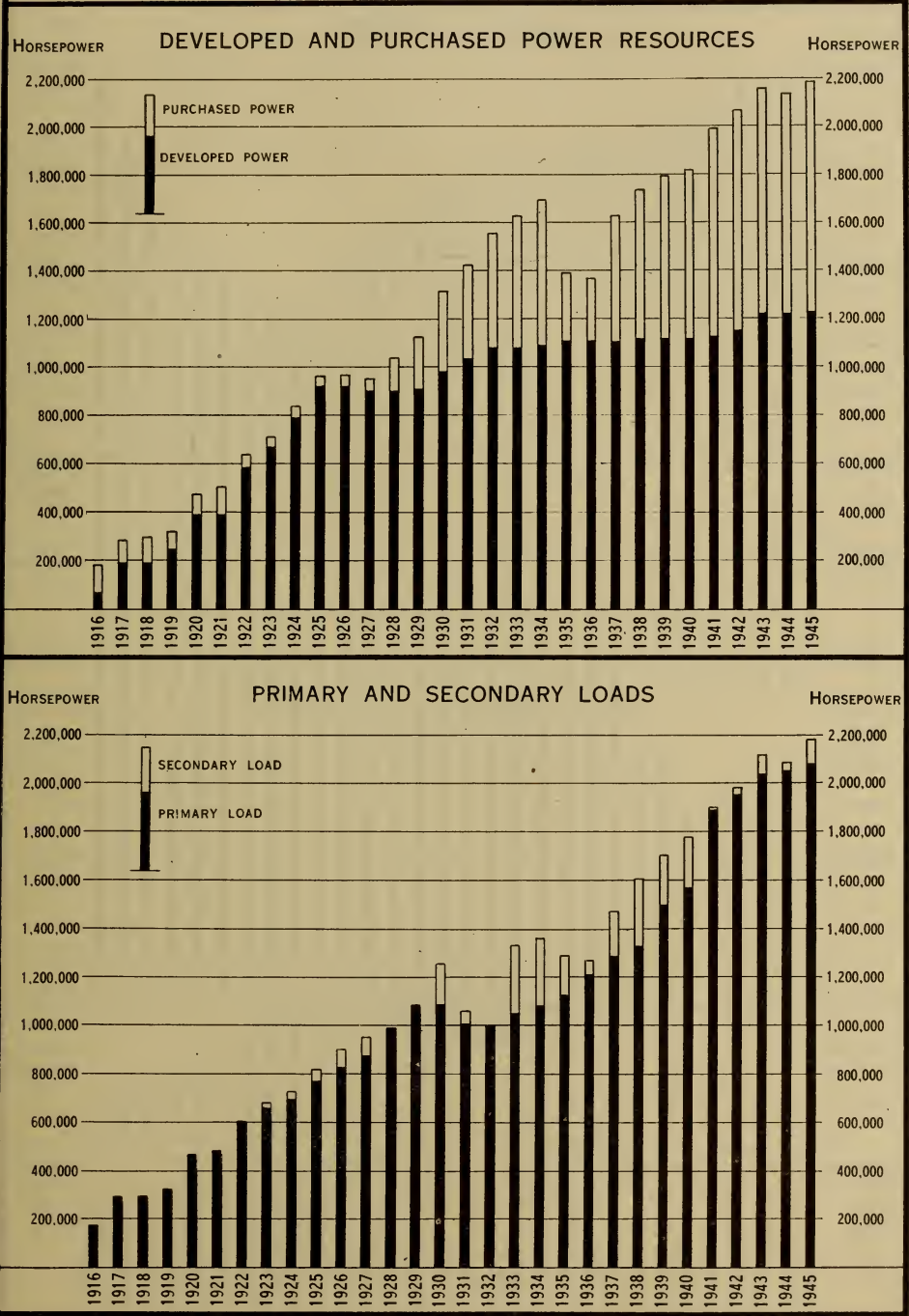
About one-half of the Report is devoted to financial and other statistical data which are presented in two sections IX and X already referred to above.

Frequent enquiries for the rates for service to consumers are received by the Commission. For the urban municipalities served by the Commission these are given in Statement "E" starting on page 330. For the rural power districts they are given in Section IV on page 55. Certain statistical data resulting from the application of the rates in urban utilities are given in Statement "D". This statement is prefaced by a special introduction starting on page 310.

In its Annual Reports the Commission aims to present a comprehensive statement respecting the activities of the whole undertaking under its administration. Explanatory statements are suitably placed throughout the Report. The Commission receives many letters asking for general information respecting its activities, as well as requests for specific information concerning certain phases of its operations. In most cases the enquiries can satisfactorily be answered by simply directing attention to information presented in the Annual Report.

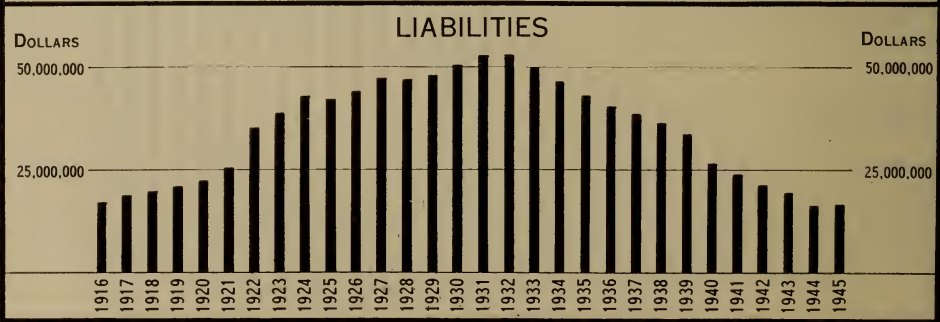
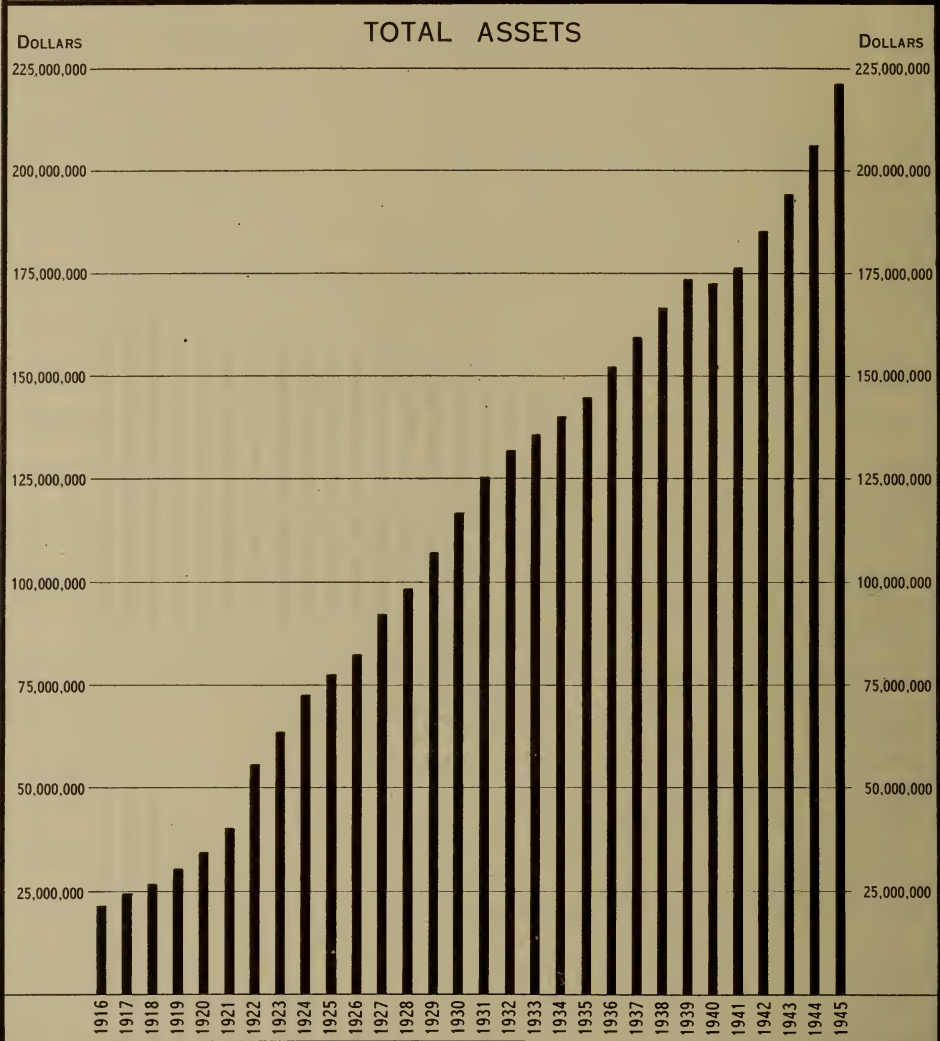
THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

THIRTY YEARS RECORD — SOUTHERN ONTARIO SYSTEM



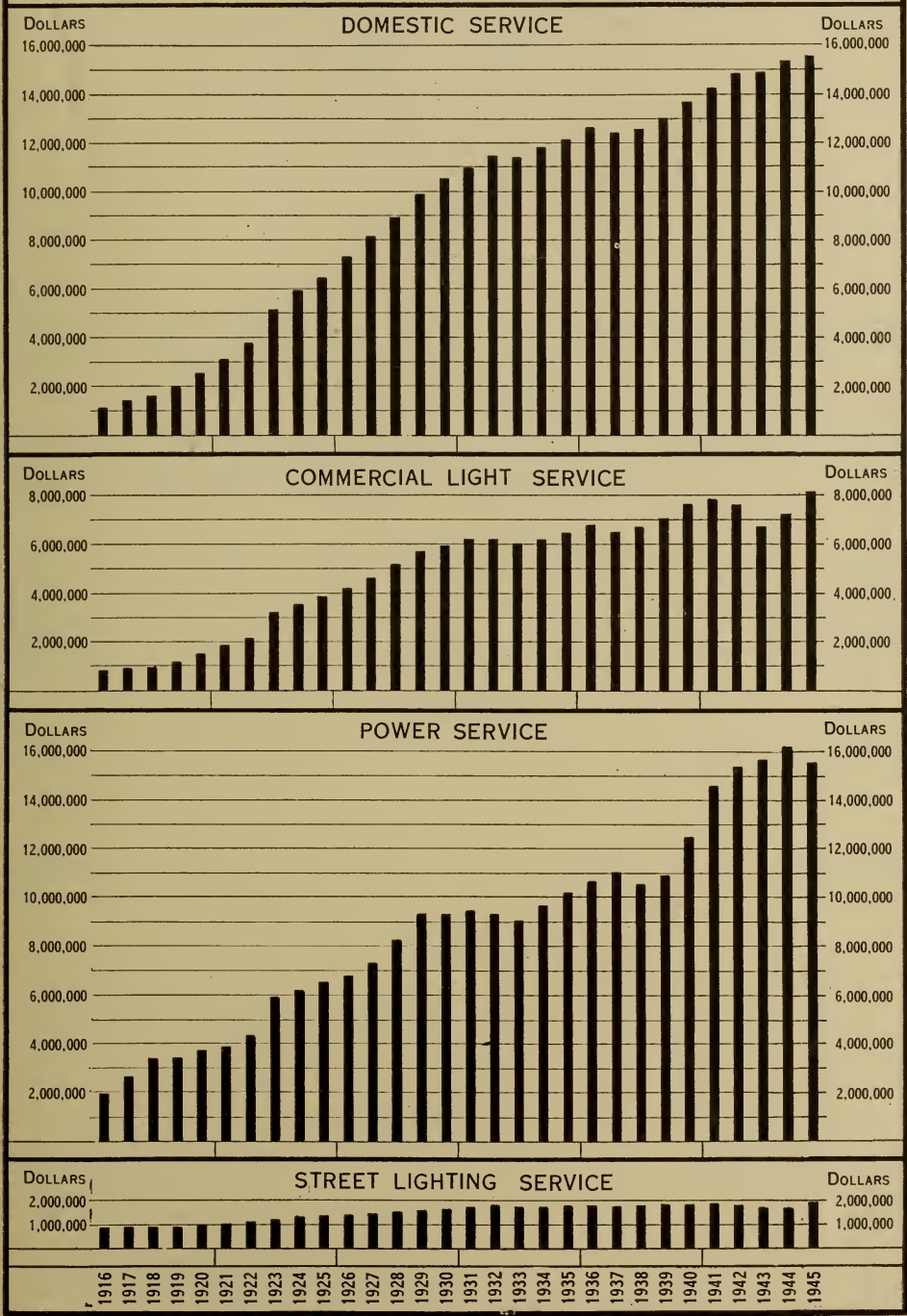
THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

HYDRO UTILITIES OF CO-OPERATING URBAN MUNICIPALITIES
THIRTY YEARS RECORD



THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

HYDRO UTILITIES OF CO-OPERATING URBAN MUNICIPALITIES
THIRTY YEARS REVENUES



SECTION I

LEGAL

THERE were no amendments to The Power Commission Act and no special Acts relating to the Commission passed by the Legislative Assembly of the Province of Ontario during 1945.

The Agreements between The Hydro-Electric Power Commission of Ontario and municipalities, persons and corporations mentioned in the list hereunder given were approved by Orders-in-Council.

CO-OPERATIVE SYSTEMS

TOWNS

Burlington.....	June 5, 1945
Newmarket.....	Feb. 19, 1945
Thornbury.....	Mar. 16, 1945

VILLAGES

Braeside.....	Feb. 20, 1945
Vienna.....	Aug. 1, 1945

TOWNSHIPS

Freeman.....	Oct. 17, 1945
Middleton.....	Nov. 27, 1945
Pembroke.....	April 7, 1945

CORPORATIONS

Bonter, W. F.....	Sept. 19, 1945
Brompton Pulp and Paper Company Limited.....	July 6, 1945
Burlington Steel Company Limited.....	Aug. 20, 1945
Canada Cement Company Limited.....	Dec. 5, 1945
Canadian Industries Limited.....	Feb. 5, 1945
Cedars Rapids Transmission Company Limited.....	Feb. 19, 1945
Cedars Rapids Transmission Company Limited.....	April 30, 1945
Defence Industries Limited.....	May 1, 1945
Defence Industries Limited.....	June 14, 1945
Deloro Smelting and Refining Company Limited.....	May 9, 1945
Gair Company Limited (Campbellford Plant).....	July 9, 1945
Gair Company Limited (Frankford Plant).....	July 9, 1945
Gypsum Lime and Alabastine, Canada, Limited.....	Nov. 13, 1945

His Majesty the King, represented by the Minister of National Defence.....	Oct. 11, 1945
His Majesty the King, represented by the Minister of Transport (Iroquois Section, Galops Canal).....	May 15, 1945
His Majesty the King, represented by the Minister of Transport (Upper Entrance Section, Galops Canal).....	May 15, 1945
Imperial Oil Limited (Yards).....	May 1, 1945
Imperial Oil Limited (Pump House).....	May 1, 1945
Maclaren Quebec Power Company.....	April 12, 1945
Nichols Chemical Company Limited.....	Sept. 26, 1945
Strathcona Paper Company Limited.....	Oct. 25, 1945
Undersill Gold Mining Company Limited.....	Aug. 29, 1945

NORTHERN ONTARIO PROPERTIES

CITY

Sudbury.....	Dec. 17, 1945
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TOWNSHIP

Calvert.....	Oct. 26, 1944
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CORPORATIONS

Aquarius Porcupine Gold Mines Limited.....	Nov. 2, 1945
Armistice Gold Mines Limited.....	Oct. 16, 1945
Ausic Mining and Reduction Company Limited (Genessee Mining Property).....	Nov. 24, 1945
Ausic Mining and Reduction Company Limited (Silver Cliff Property).....	Nov. 24, 1945
Canadian Northern Railway Company.....	Feb. 26, 1945
Canadian Splint & Lumber Corporation Ltd.....	July 9, 1945
Cathroy Larder Mines Limited.....	June 25, 1945
Coniaurum Mines Limited.....	July 9, 1945
Cross Lake Lease.....	July 30, 1945
Crowshore Patricia Gold Mines Limited.....	Sept. 11, 1945
Dome Mines Limited (Power for mining operations).....	Aug. 7, 1945
Dome Mines Limited (Power for pumping tailings).....	Aug. 7, 1945
Dome Mines Limited (Power for pumphouse).....	Aug. 7, 1945
Gold Hawk Porcupine Mines Limited.....	July 6, 1945
Hasaga Gold Mines Limited.....	June 5, 1945
Hayes Steel Products Limited.....	Sept. 5, 1945
Kirkland Lake Gold Mining Company Ltd.....	July 9, 1945
McIntyre Porcupine Mines Limited.....	Jan. 1, 1945
Macassa Mines Limited.....	June 11, 1945
Miles (Red Lake) Mines Limited.....	Dec. 21, 1945
Orlac Red Lake Mines Limited.....	Sept. 7, 1945
O'Shaughnessy, C.V.J.....	Nov. 21, 1945
Porcupine Peninsular Gold Mines Ltd.....	July 12, 1945
Poupore Lumber Company.....	Aug. 22, 1945
Queenston Gold Mines Limited.....	July 9, 1945
Silanco Mining and Refining Company Ltd.....	Dec. 31, 1945
Silanco Mining and Smelting Corporation Limited (Aquamico Mining Property).....	July 9, 1945
Silanco Mining and Smelting Corporation Limited (Beaver Mining Property).....	July 9, 1945
Silanco Mining and Smelting Corporation Limited (Colonial Mining Property).....	July 9, 1945
Silanco Mining and Smelting Corporation Limited (Coleman Mining Property).....	Oct. 3, 1945
Sylvanite Gold Mines Limited.....	May 25, 1945
Teck Hughes Gold Mines Limited.....	June 22, 1945
Toburn Gold Mines Limited.....	June 4, 1945
Upper Canada Mines Limited.....	July 9, 1945
Wright Hargreaves Mines Limited.....	May 25, 1945

RIGHT-OF-WAY AND PROPERTY

THE gradual relaxation of wartime restrictions has increased substantially the volume of construction, particularly of rural service extensions and this increased construction has resulted in a greater number of poles, anchors, etc. being placed on private property.

SOUTHERN ONTARIO SYSTEM

As in the past few years term easement and tree trimming rights have been renewed in addition to the rights obtained for both rural and high-tension lines.

The policy of providing improved and better centralized rural offices was continued and several leases and purchases for this purpose were completed.

Niagara Division

Progress has continued in obtaining lands required in the enlargement of the DeCew Falls development and several properties required in connection with water storage for this generating station were obtained.

Lands were obtained for a new transformer station at Islington and a proposed transmission line from this station to a junction with the present 220-kv line to Burlington transformer station.

In connection with the transmission line from the proposed frequency changer station in Scarborough township, the acquisition of right-of-way extending northwesterly to the town of Barrie was commenced.

Negotiations were commenced for the purchase of a right-of-way owned by the Canadian National Railways, extending from Bronte to a point near Whitby.

Some land was purchased and easements obtained for the 110-kv line from Kent transformer station to St. Clair transformer station.

A site was purchased for the Caledonia transformer station.

Outstanding purchases were made to complete all necessary ownership of lands required on various rights-of-way in the Niagara division.

Georgian Bay Division

The purchase of additional land required for the South Falls generating station was completed.

Expired rights for lines constructed approximately thirty years ago have been renewed and many rights for new lines constructed were obtained.

Transmission line rights were obtained for the line from Eugenia to Priceville.

Eastern Ontario Division

Sale of lands acquired in the purchase of the Canadian National Railways right-of-way between Colborne and Port Hope was continued and this right-of-way is now practically all disposed of to abutting owners subject to perpetual transmission line rights.

Lands were obtained in Oshawa for the Oshawa transformer station. Lands have been obtained for the new hydro-electric development at Stewartville and purchasing is continuing. Lands and rights were also acquired for the development on the Madawaska river at Bark lake.

Easements and tree cutting rights were obtained for the 110-kv line from Haleys switching station to Chalk River which practically completes the right-of-way required for this line.

Rights were obtained for the new 110-kv line from Merrivale Road junction to Cornwall transformer station, a distance of approximately fifty miles.

Sites were obtained for the Merrivale switching station and for the Riverdale transformer station.

Rights were obtained for the transmission line between Maxville and South Plantagenet.

THUNDER BAY SYSTEM

Rights were obtained for several lines in this system, including distribution lines serving Atikoken.

NORTHERN ONTARIO PROPERTIES

A study of properties acquired in the purchase of the Northern Ontario Power Company was made and rights for several lines acquired with that Company were secured.

SURVEYS

Surveys were made for all properties acquired and sold during the year and for easement and other rights both new and in renewal. Contour and levelling surveys were carried out in connection with some properties.

GENERAL

Assessment notice and tax bills from 361 municipalities were certified and where necessary appeals were entered against assessments not in accordance with The Power Commission Act. During the year 237.75 acres of land were acquired and 223.68 acres of surplus land were sold. Efforts were continued to lease all available lands for agricultural or other purposes and all associated buildings have been well maintained. Several leases associated with the war have been terminated or revised. The revenue from leased property continues to increase materially.

A total of 2,548 documents were recorded during the year.

SECTION II

OPERATION OF THE SYSTEMS

THE Commission's fiscal year ending October 31, 1945, was particularly favourable, both in respect to operation of the properties and service rendered. During the year total power resources rose from 2,545,000 horsepower as of October 31, 1944, to 2,672,000 horsepower on October 31, 1945, details of which are given in the following table of "Total Power Generated and Purchased."

Water conditions on the whole were favourable. Although the year was entered with water storages below satisfactory levels, the 1945 spring run-off, followed by greater than average precipitation during the summer and fall months, restored storages available for the 1945-46 winter season to above normal levels in most areas.

Load Conditions, November 1, 1944, to October 31, 1945.

The total output on the Commission's combined systems reached a maximum of 2,608,000 horsepower in the spring of 1945. This was the highest load ever carried by the Commission. It exceeded the maximum output in the previous year by 163,000 horsepower, or 6.7 per cent. The total energy output from all generated and purchased sources amounted to 12,488,227,179 kilowatt-hours, exceeding all previous records, and that of the previous year by 3.7 per cent.

The output for primary power purposes also reached levels never before attained. The maximum primary peak demands, which usually occur during the fall and winter months, occurred in the spring of 1945, reaching 2,470,000 horsepower. Compared with the maximum demand of the previous year, this was an increase of 5.2 per cent; or 122,000 horsepower. The monthly primary peak loads, without exception, exceeded those of the corresponding months of the previous year and contrary to expectations, no appreciable recession took place following the ending of the wars in Europe and the Pacific. Energy output for primary power purposes rose three per cent from 10,787,348,600 kilowatt-hours in the previous year to 11,110,548,529 kilowatt-hours.

Details regarding the peak loads of the Southern Ontario and Thunder Bay systems and of the several districts of the Northern Ontario Properties, are given in the load curves in this section of the Report.

TOTAL POWER GENERATED HYDRO-ELECTRIC GENERATING PLANTS

Generating plants	Maximum normal plant capacity Oct. 31, 1945 horsepower	Peak Load during fiscal year		Total output during fiscal year	
		1943-44 horse- power	1944-45 horse- power	1943-44 kilowatt- hours	1944-45 kilowatt- hours
SOUTHERN ONTARIO SYSTEM					
Niagara division					
Queenston-Chippawa—Niagara river.....	500,000	506,702	495,979	2,832,963,000	2,849,865,000
"Ontario Power"—Niagara river.....	180,000	182,306	184,987	1,082,090,300	1,123,406,300
"Toronto Power"—Niagara river.....	150,000	139,142	146,113	723,260,300	844,141,900
Chats Falls (Ontario half)—Ottawa river..	108,000	115,952	117,292	345,895,600	324,656,150
DeCew Falls (25 cycle)—Welland canal..	72,000	69,973	71,582	411,368,000	411,503,000
DeCew Falls (66½ cycle)—Welland canal..	50,000	51,609	49,598	197,867,000	196,880,900
Georgian Bay division					
Big Eddy—Muskoka river.....	9,500	10,556	10,556	31,718,080	38,117,600
Ragged Rapids—Muskoka river.....	10,000	11,059	10,858	34,692,730	41,514,510
Bala No. 1 and No. 2—Muskoka river.....	600	536	509	1,705,200	1,377,840
South Falls—South Muskoka river.....	5,600	5,630	5,764	29,098,725	30,719,820
Hanna Chute—South Muskoka river.....	1,600	1,743	1,743	7,786,700	9,227,500
Trethewey Falls—South Muskoka river....	2,300	2,279	2,279	10,008,000	11,476,800
Big Chute—Severn river.....	5,800	5,871	5,871	26,130,000	26,507,120
Wasdells Falls—Severn river.....	1,200	1,106	1,086	3,579,504	4,019,964
Eugenia Falls—Beaver river.....	7,500	7,507	7,882	13,139,200	23,050,400
Hanover—Saugeen river.....	400	422	402	859,248	552,528
Walkerton—Saugeen river.....	500	489	483	2,098,600	2,159,100
Caledon Electric—Credit river (Hydraulic. and Diesel units).....	800	...	637	.....	1,412,660
Eastern Ontario division					
Sidney—Dam No. 2—Trent river.....	4,500	5,161	5,395	19,683,300	23,288,100
Frankford—Dam No. 5—Trent river.....	3,500	4,182	3,887	16,455,250	17,519,650
Sills Island—Dam No. 6—Trent River....	2,100	2,252	2,252	11,720,040	10,231,040
Meyersburg—Dam No. 8—Trent river.....	7,000	7,755	7,942	36,709,700	38,684,020
Hague's Reach—Dam No. 9—Trent river....	4,500	5,060	5,060	22,646,200	23,808,220
Ranney Falls—Dam No. 10—Trent river....	11,500	12,024	12,252	53,527,320	59,409,280
Seymour—Dam No. 11—Trent river.....	4,200	4,491	4,692	19,678,560	21,505,440
Heely Falls—Dam No. 14—Trent river....	15,300	16,186	16,287	67,665,820	75,443,900
Auburn—Dam No. 18—Trent river.....	2,400	2,547	2,869	10,825,230	12,304,920
Lakefield—Otonabee river.....	2,300	2,473	2,373	10,259,230	7,464,580
Young's Point—Otonabee river.....	0	536	0	397,600	0
Fenelon Falls—Dam No. 30—Sturgeon river	1,000	938	891	4,115,250	3,300,575
Galetta—Mississippi river.....	1,100	1,227	1,206	2,987,400	2,902,200
Carleton Place—Mississippi river.....	200	402	0	141,725	0
High Falls—Mississippi river.....	3,400	3,686	3,485	11,328,480	9,421,920
Calabogie—Madawaska river.....	6,000	6,475	6,434	24,231,370	26,942,330
Barrett Chute—Madawaska river.....	54,000	53,619	53,619	161,483,800	171,236,600
THUNDER BAY SYSTEM					
Cameron Falls—Nipigon river.....	72,000	75,737	74,397	415,204,800	416,601,900
Alexander—Nipigon river.....	70,000	52,279	71,716	279,243,800	299,628,800
NORTHERN ONTARIO PROPERTIES					
Abitibi district					
Abitibi Canyon—Abitibi river.....	240,000	217,158	227,346	933,214,500	999,847,500
Timiskaming district					
Matabitchuan—Matabitchuan river.....	12,000	...	11,796	.....	17,632,000
Upper Notch—Montreal river.....	11,300	...	10,724	.....	26,716,430
Fountain Falls—Montreal river.....	3,000	...	2,681	.....	7,196,308
Hound Chute—Montreal river.....	4,800	...	4,859	.....	14,703,381
Indian Chute—Montreal river.....	3,900	...	3,887	.....	10,829,020
Lower Sturgeon—Mattagami river.....	8,000	...	8,043	.....	24,196,664
Sandy Falls—Mattagami river.....	4,300	...	4,290	.....	11,821,774
Wawaitin—Mattagami river.....	12,600	...	12,064	.....	20,545,075
Sudbury district					
Coniston—Wanapitei river.....	5,900	5,898	5,831	26,157,600	24,334,400
McVittie—Wanapitei river.....	3,100	3,083	3,150	18,087,800	17,858,400
Stinson—Wanapitei river.....	7,500	7,802	7,802	24,102,200	22,496,500
Crystal Falls—Sturgeon river.....	10,000	10,925	10,925	32,369,200	36,810,500
Nipissing district					
Nipissing—South river.....	2,100	2,192	2,151	6,803,380	6,963,520
Bingham Chute—South river.....	1,200	1,300	1,287	3,988,520	4,233,040
Elliott Chute—South river.....	1,700	1,917	1,890	3,400,600	4,118,000
Patricia district					
Rat Rapids—Albany river.....	1,800	2,011	2,064	6,592,580	9,973,760
Ear Falls—English river.....	15,000	11,260	13,941	48,460,320	58,021,120
	1,719,000	*	*	8,025,732,762	8,478,579,959

*Because the peak loads on the various generating plants and purchased power sources usually occur at different times, the sum of the individual peak loads would not represent the sum of the peak loads on the systems. These, in the case of each system, must relate to the maximum load occurring at any one time. Consequently, the column headed "Peak load" is not totalled.

AND PURCHASED—ALL SYSTEMS

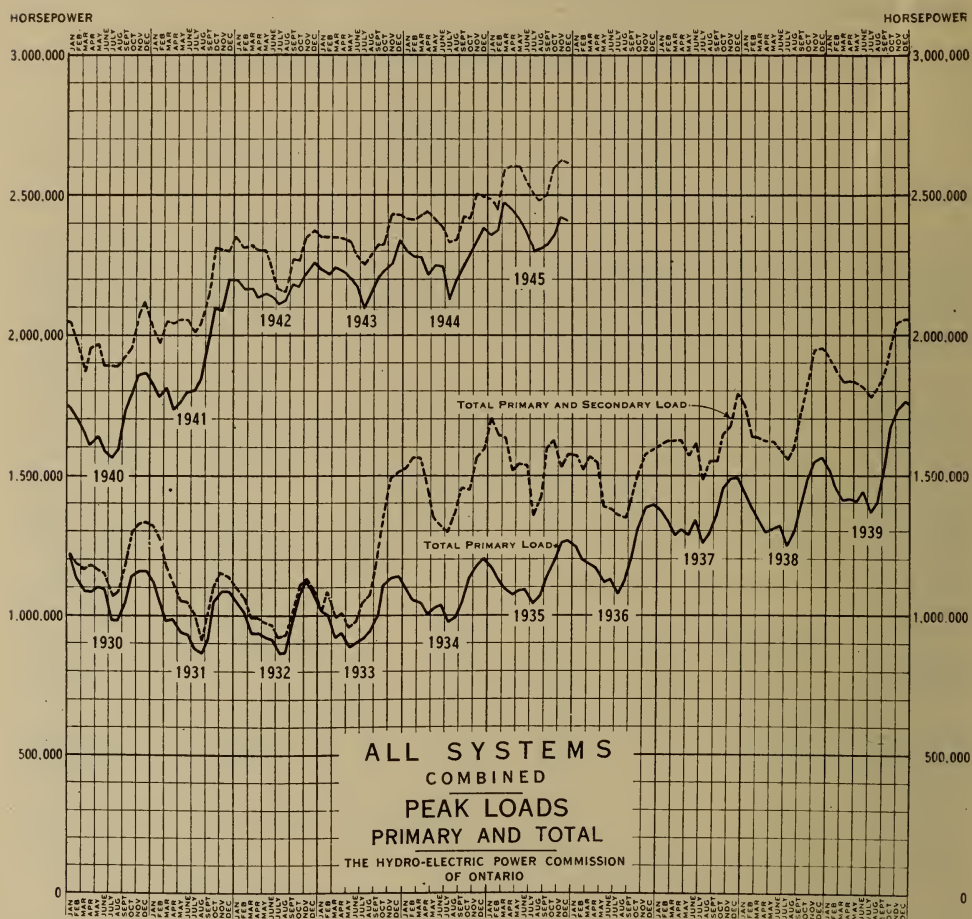
POWER PURCHASED

Power sources	Contract amount horsepower Oct. 31, 1945	Total purchased	
		1943-44 kilowatt-hours	1944-45 kilowatt-hours
SOUTHERN ONTARIO SYSTEM			
Canadian Niagara Power Co.	20,000	98,094,400	91,597,300
Department of Transport (Welland Ship Canal) ..		2,439,900	5,261,600
Gatineau Power Co.—25 cycle contract.	260,000	1,135,317,600	1,135,753,300
Gatineau Power Co.—60 cycle contract at 110 kv	60,000	275,634,700	259,763,000
Gatineau Power Co.—60 cycle contract at 11 kv..	20,000	72,594,000	75,090,600
Gatineau Power Co.—60 cycle contract at Treadwell (cancelled Sept. 30, 1945).....		1,791,900	1,758,560
Ottawa Valley Power Co.	108,000	348,364,200	327,486,250
Beauharnois Light, Heat and Power Co. "Main contract"	250,000	1,215,950,000	1,300,670,000
Beauharnois Light, Heat and Power Co. "Short term agreement"	50,000		
MacLaren-Quebec Power Co.—"Main contract" ..	125,000	821,145,000	756,025,000
MacLaren-Quebec Power Co.—"War power"	57,500		
M. F. Beach Estate.	500	3,000,400	2,979,600
Rideau Power Co.	400	1,891,400	1,891,500
Campbellford Water and Light Commission.	800	7,082,900	4,478,900
Miscellaneous.		2,460,500	3,388,658
THUNDER BAY SYSTEM			
Kaministiquia Power Co.		22,629,760	31,788,480
Miscellaneous.		0	237,900
NORTHERN ONTARIO PROPERTIES			
Manitoulin Pulp Co.	800	1,486,400	1,876,800
Abitibi Power and Paper Co.		5,016,768	8,606,272
Miscellaneous.		546,400	993,500
Total purchased.	953,000	4,015,446,228	4,009,647,220
Power purchased, contract amount, 1945.....		953,000	horsepower
Maximum normal plant capacity, 1945.....		1,719,000	"
Total available capacity generated and purchased, 1945		2,672,000	"
Total available capacity generated and purchased, 1944		2,545,018	"
Difference (increase).....		126,982	"
Total energy purchased, 1945.....		4,009,647,220	kilowatt-hours
Total energy generated, 1945.....		8,478,579,959	"
Total energy generated and purchased, 1945.....		12,488,227,179	"
Total energy generated and purchased, 1944.....		12,041,178,990	"
Difference (increase).....		447,048,189	"

CAUTION: The figures for "Maximum normal plant capacity" reflect the capacity of the various plants under the most favourable operating conditions which can reasonably be considered as normal, taking into consideration turbine capacity as well as generator capacity, and also the net operating head and available water supply.

Owing, among other things, to changes in generating equipment due to wear and tear or the replacement of parts, also to changes in limitations governing water levels and effective net heads, the maximum normal plant capacity is not a fixed quantity but is one which must be revised from time to time.

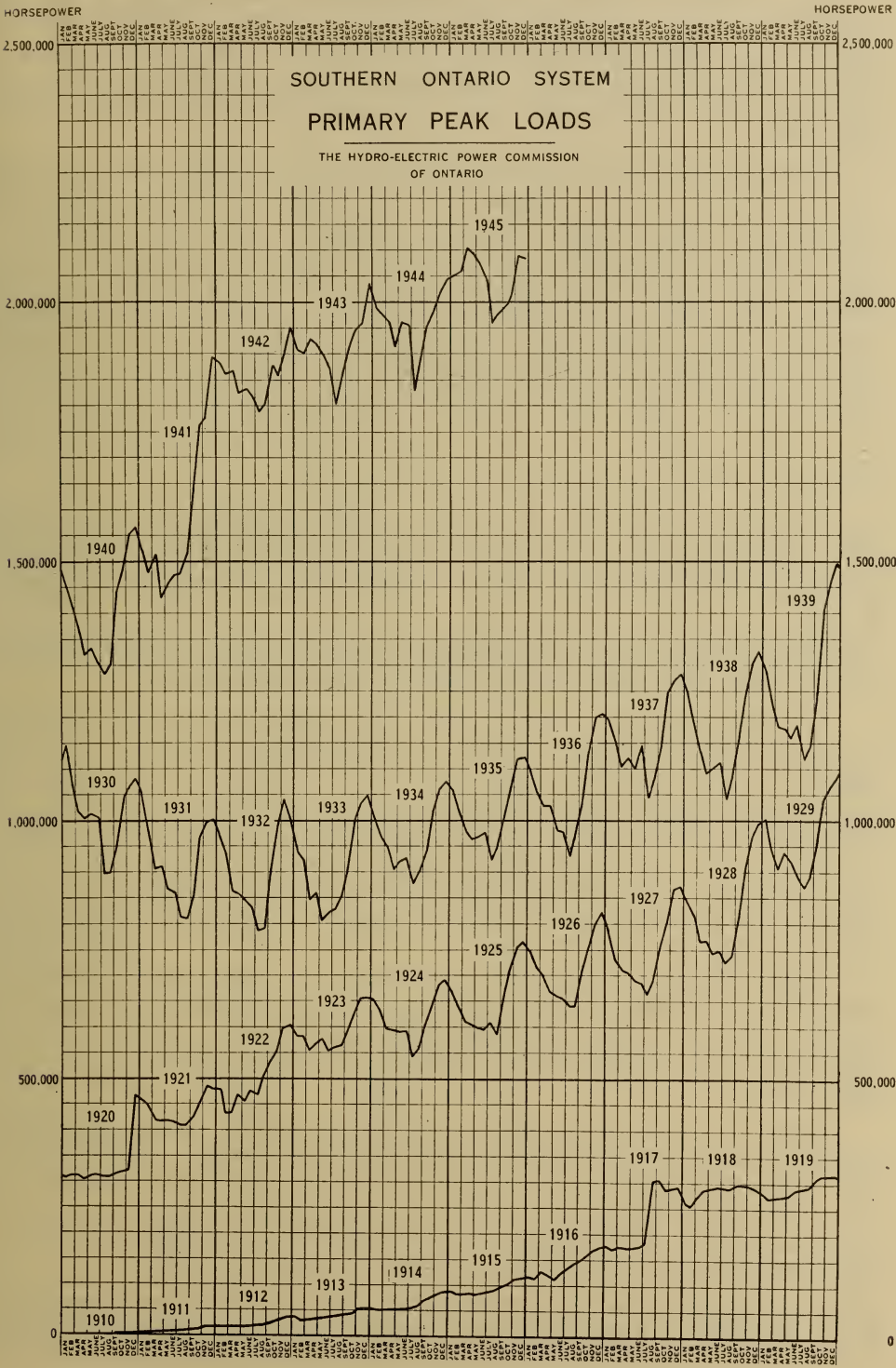
It is particularly important to bear in mind that the column headed "Maximum normal plant capacity" cannot be taken as an indication of the dependable capacity of the various plants: in some cases it is, but in many cases it is not. Chief among the factors which govern the maximum dependable capacity of an hydraulic power plant and which are not reflected in column headed "Maximum normal plant capacity" are abnormal variations in water supply and operating limitations encountered when plants are so situated on a given stream as to be affected by one another.



SOUTHERN ONTARIO SYSTEM

The power load in the Southern Ontario system reached heights during the past year never before attained. The maximum primary load occurred in the spring and from that point to the end of the year, receded in comparison with the load of the previous year. However, at the end of the year following V-E and V-J Days, it was still greater than the load for the same period last year. Compared with the previous year, the maximum total load rose from 2,114,953 to 2,177,763 horsepower, an increase of three per cent, and the maximum primary load rose from 2,033,103 to 2,104,580 horsepower, an increase of 3.5 per cent.

The total energy output of the Southern Ontario system for primary and secondary power was 1.9 per cent greater than the output of the previous year. The output of energy classed as primary power and representing about 90 per cent of the total, rose from 9,211,310,482 kilowatt-hours in the previous year to 9,391,920,645 kilowatt-hours, an increase of two per cent.



On December 1, 1944, the Commission took over the operation of the properties purchased from the Caledon Electric Company. These properties have been included in the Georgian Bay division of the Southern Ontario system. The generating plant, consisting of two small hydraulic units and two small Diesel driven units, has a total maximum normal output of 800 horsepower.

During certain periods of the year special power purchases were arranged with the Quebec power companies for such power as the companies had available in excess of their standing agreements with the Commission. Under a flexible arrangement with the Department of Transport, a block of 5,000 horsepower was purchased during the non-navigation period on the Welland Ship canal in the winter of 1944-45. As the 60-cycle resources available to the Georgian Bay division were inadequate to carry the high summer loads on this division, arrangements were made in July with Defence Industries Limited at Nobel to obtain the use of their steam-turbo unit, which was then in the process of being closed down. This unit was used regularly over the summer peak period on the Georgian Bay division and has since been retained as standby for emergency use.

Except for shut-downs to perform essential maintenance work, all of the Commission's plants on the Niagara river were operated at practically full output during the year. Early in the spring of 1945, automatic devices for regulating Queenston forebay levels by the regulation of generating output were placed in service. These devices have been a worthwhile addition in raising the efficiency of the Queenston generating station and at the same time relieving operators of the onerous duty of manual operation.

All of the generators at Chats Falls were available for service as required during the whole of the year, routine maintenance being carried out during the lighter load periods. This station was used as frequency control point for the whole of the Southern Ontario system during most of the year, the controlling equipment giving satisfactory service. The early break-up on the Ottawa river in April, one full month ahead of normal, eliminated possible water deficiency due to low storages caused by the dry summer of 1944. Average flow was maintained during the summer of 1945 and storage at the end of the year was above normal.

Water storage and stream flow on the rivers supplying the generating stations on the Georgian Bay and Eastern Ontario divisions, although sub-normal in the fall of 1944, showed decided improvement in 1945, with the result that on the whole the water supply for the year under review was well above normal.

Except at a few of the smaller generating stations, where adverse ice conditions are a normal experience each winter, no special trouble from ice runs was encountered. Notwithstanding the unprecedented demand for power and the necessity of accepting a somewhat lower standard of maintenance owing to the shortages in skilled labor and supplies, generating equipment gave remarkably good service throughout the year.

Outside of an occasional transformer failure, no trouble was experienced in the operation of the Commission's transformer and distributing stations. To provide for rising loads, the capacity of several distributing stations was

increased and a few new stations were erected to relieve loads on near-by existing stations.

Transmission lines, subject to the hazards of wind, sleet and lightning storms, functioned reliably throughout the year. Even the record blizzard of December 12, 1944, caused only minor line outages and Hydro was available for all essential uses. Disrupted transportation facilities throughout the storm area, however, resulted in the direct loss in load of some 175,000 horsepower, which took about four days to recover.

In last year's Report, mention was made of steps taken to improve the economy of operation in the parallel operation of the Niagara, Georgian Bay and Eastern Ontario divisions of the Southern Ontario system. As a further study in this direction, a test was arranged by the Commission and the Central New York Power Corporation to interconnect their respective systems by means of an existing 60-cycle 110,000-volt tie line sixty miles long, extending between Ottawa, Ontario, and Massena, New York. This test was carried out on March 11 and 12, 1945.

The test was successful and yielded results of great operational and research value to the Commission. It is also interesting to note that the geographical areas supplied by the interconnection of these great systems comprised all southern Ontario below Algonquin Park, from Windsor to the Ottawa river, together with a portion of the Province of Quebec, while in

SUMMATION OF PEAK LOADS IN HORSEPOWER AS SUPPLIED TO URBAN MUNICIPAL UTILITIES AND FOR RURAL HYDRO SERVICE, SHOWING TREND OF POWER DEMANDS 1944-1945

System	Total of peak loads in horsepower		Net increase in horsepower	Number of utilities with			Total
	July to Dec. 1944	July to Dec. 1945		De- creases	Increases	No change	
URBAN MUNICIPAL UTILITIES							
Southern Ontario....	1,266,644	1,378,360	111,716	22	283	2	307
Thunder Bay.....	45,325	47,251	1,926	0	6	0	6
Northern Ontario Properties.....	18,293	20,868	2,575	1	14	1	16
RURAL HYDRO SERVICE							
Southern Ontario....	121,399	145,992	24,593	8	105	1	114
Thunder Bay.....	862	1,048	186	0	2	0	2
Northern Ontario Properties.....	3,001	3,405	404	1	4	0	5
Total, Rural Service	125,262	150,445	25,183	9	111	1	121

NOTE: The yearly peak demands of the individual municipal Hydro utilities do not all occur during the same month of the year nor, for any given municipality, do they always occur in the same month in successive years; in nearly all cases however the yearly peak occurs during the second half of the calendar year. For this reason a comparison of the peaks occurring during the second half of the year as shown in the tables of this Section shows most satisfactorily the general trend of the local loads. The loads given above for Rural Hydro Service are a summation of the loads in the various operational districts and are similarly obtained.

the United States it included the States of New York, Maryland, New Jersey, Connecticut, Vermont, New Hampshire, Massachusetts, Rhode Island and a portion of Pennsylvania.

The generation connected totalled 11,000,000 kilowatts, about 3½ million being hydraulic generation and the remainder steam. On the Canadian system, approximately 837,000 customers were being supplied while in the United States the customer total reached about 4,000,000.

An interesting feature of this experiment was that over the whole of this interconnected network automatic frequency control was maintained, so that electric clocks at points as far separated as Baltimore, Maryland, and Parry Sound, Ontario, indicated the seconds at precisely the same rate. This synchronous operation applied, of course, to all connected generators and to synchronous motors throughout the entire interconnected area.

SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1944-1945

Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1944	July to Dec., 1945	Decrease	Increase
Acton.....	25	1,730.6	1,918.5	.....	187.9
Agincourt.....	25	244.8	308.4	.....	63.6
Ailsa Craig.....	25	159.0	179.1	.....	20.1
Alexandria.....	60	311.1	485.5	.....	174.4
Alliston.....	60	474.9	581.4	.....	106.5
Alvinston.....	25	137.4	177.9	.....	40.5
Amherstburg.....	25	1,088.3	1,330.6	.....	242.3
Ancaster Twp.—Voted Area.....	25	493.8	618.6	.....	124.8
Apple Hill.....	60	55.0	66.6	.....	11.6
Arkona.....	25	72.1	84.2	.....	12.1
Arnprior.....	60	1,322.2	1,546.0	.....	223.8
Arthur.....	60	185.0	231.9	.....	46.9
Athens.....	60	129.3	155.1	.....	25.8
Aurora.....	25	1,443.2	1,674.0	.....	230.8
Aylmer.....	25	987.8	1,249.7	.....	261.9
Ayr.....	25	299.2	315.5	.....	16.3
Baden.....	25	673.5	678.1	.....	4.6
Bala.....	60	358.0	516.1	.....	158.1
Barrie.....	60	4,422.3	5,333.8	.....	911.5
Bath.....	60	58.0	59.9	.....	1.9
Beachville.....	25	791.7	811.7	.....	20.0
Beamsville.....	25	508.8	685.8	.....	177.0
Beaverton.....	60	340.5	398.0	.....	57.5
Beeton.....	60	157.2	129.1	28.1	.....
Belle River.....	25	210.8	255.9	.....	45.1
Belleville.....	60	8,236.6	9,120.0	.....	883.4
Blenheim.....	25	714.2	851.5	.....	137.3
Bloomfield.....	60	171.8	183.9	.....	12.1
Blyth.....	25	169.2	196.4	.....	27.2
Bolton.....	25	264.6	279.6	.....	15.0
Bothwell.....	25	147.3	200.5	.....	53.2
Bowmanville.....	60	3,189.1	3,579.7	.....	390.6
Bradford.....	60	251.3	335.5	.....	84.2
Braeside.....	60	300.2	331.1	.....	30.9
Brampton.....	25	2,995.6	3,799.6	.....	804.0

SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1944-1945—Continued

Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1944	July to Dec., 1945	Decrease	Increase
Brantford.....	25	23,802.9	23,912.4	.....	109.5
Brantford Twp.—Voted Area.....	25	1,535.0	2,059.2	.....	524.2
Brechin.....	60	64.3	67.8	.....	3.5
Bridgeport.....	25	168.6	300.6	.....	132.0
Brigden.....	25	93.8	116.2	.....	22.4
Brighton.....	60	536.1	651.7	.....	115.6
Brockville.....	60	5,277.5	6,021.4	.....	743.9
Bronte.....	66½	193.0	249.3	.....	56.3
Brussels.....	25	166.8	248.5	.....	81.7
Burford.....	25	293.4	321.6	.....	28.2
Burgessville.....	25	57.9	61.8	.....	3.9
Burlington.....	66½	1,836.5	2,281.6	.....	445.1
Burlington Beach.....	66½	500.7	665.9	.....	165.2
Caledonia.....	25	432.1	534.8	.....	102.7
Campbellville.....	25	53.7	59.6	.....	5.9
Cannington.....	60	271.1	298.4	.....	27.3
Cardinal.....	60	422.4	517.9	.....	95.5
Carleton Place.....	60	2,002.5	2,236.8	.....	234.3
Cayuga.....	25	168.2	201.7	.....	33.5
Chatham.....	25	7,768.4	9,317.9	.....	1,549.5
Chatsworth.....	60	106.6	158.3	.....	51.7
Chesley.....	60	650.4	682.2	.....	31.8
Chesterville.....	60	338.2	385.7	.....	47.5
Chippawa.....	25	390.6	472.1	.....	81.5
Clifford.....	25	118.0	142.6	.....	24.6
Clinton.....	25	810.4	856.2	.....	45.8
Cobden.....	60	135.7	165.7	.....	30.0
Cobourg.....	60	2,387.9	2,618.4	.....	230.5
Colborne.....	60	272.5	346.2	.....	73.7
Coldwater.....	60	224.0	225.1	.....	1.1
Collingwood.....	60	3,056.1	2,965.8	90.3	.....
Comber.....	25	173.3	208.6	.....	35.3
Cookstown.....	60	111.4	124.1	.....	12.7
Cottam.....	25	92.6	134.0	.....	41.4
Courtright.....	25	57.0	69.8	.....	12.8
Creemore.....	60	163.5	216.5	.....	53.0
Dashwood.....	25	139.0	152.4	.....	13.4
Delaware.....	25	79.2	101.7	.....	22.5
Delhi.....	25	728.1	988.2	.....	260.1
Deseronto.....	60	277.2	332.4	.....	55.2
Dorchester.....	25	145.7	166.9	.....	21.2
Drayton.....	25	160.1	186.2	.....	26.1
Dresden.....	25	521.0	648.5	.....	127.5
Drumbo.....	25	126.8	133.2	.....	6.4
Dublin.....	25	62.5	66.5	.....	4.0
Dundalk.....	60	269.1	304.1	.....	35.0
Dundas.....	25	3,357.6	3,579.7	.....	222.1
Dunnville.....	25	1,583.7	1,889.1	.....	305.4
Durham.....	60	580.6	511.9	68.7	.....
Dutton.....	25	279.9	327.2	.....	47.3

SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1944-1945—Continued

Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1944	July to Dec., 1945	Decrease	Increase
East York Twp.—Voted Area.....	25	11,001.6	13,261.5	.....	2,259.9
Elmira.....	25	1,467.8	1,598.2	.....	130.4
Elmvale.....	60	173.0	234.6	.....	61.6
Elmwood.....	60	76.4	93.3	.....	16.9
Elora.....	25	501.5	554.7	.....	53.2
Embro.....	25	176.3	185.5	.....	9.2
Erieau.....	25	262.7	288.7	.....	26.0
Erie Beach.....	25	40.2	51.5	.....	11.3
Erin.....	60	104.0	153.4	.....	49.4
Essex.....	25	650.7	711.8	.....	61.1
Etobicoke Twp.—Voted Area.....	25	9,120.2	12,333.9	.....	3,213.7
Exeter.....	25	854.8	987.7	.....	132.9
Fergus.....	25	1,414.9	1,609.2	.....	194.3
Finch.....	60	113.5	139.7	.....	26.2
Flesherton.....	60	85.5	103.8	.....	18.3
Fonthill.....	25	222.5	277.2	.....	54.7
Forest.....	25	612.2	746.6	.....	134.4
Forest Hill.....	25	8,344.5	10,161.5	.....	1,817.0
Frankford.....	60	180.4	210.2	.....	29.8
Galt.....	25	12,436.2	12,998.4	.....	562.2
Georgetown.....	25	1,944.8	2,426.3	.....	481.5
Glencoe.....	25	222.9	260.3	.....	37.4
Goderich.....	25	1,828.0	1,983.9	.....	155.9
Grand Valley.....	60	182.8	218.0	.....	35.2
Granton.....	25	79.7	74.7	5.0	.....
Gravenhurst.....	60	1,310.9	1,626.6	.....	315.7
Grimsby.....	25	1,014.1	1,218.5	.....	204.4
Guelph.....	25	13,131.7	13,834.1	.....	702.4
Hagersville.....	25	1,198.2	1,326.3	.....	128.1
Hamilton.....	66 $\frac{2}{3}$	169,113.6	173,975.5	.....	4,861.9
Hanover.....	60	1,444.3	1,625.0	.....	180.7
Harriston.....	25	535.1	563.5	.....	28.4
Harrow.....	25	722.8	829.7	.....	106.9
Hastings.....	60	157.3	186.5	.....	29.2
Havelock.....	60	200.0	251.1	.....	51.1
Hensall.....	25	224.3	303.7	.....	79.4
Hepworth.....	60	25.7	50.7	.....	25.0
Hespeler.....	25	3,050.2	3,233.6	.....	183.4
Highgate.....	25	100.0	139.9	.....	39.9
Holstein.....	60	29.0	23.3	5.7	.....
Humberstone.....	25	691.0	754.7	.....	63.7
Huntsville.....	60	1,311.1	1,428.1	.....	117.0
Ingersoll.....	25	3,634.6	3,605.8	28.8	.....
Iroquois.....	60	278.1	368.8	.....	90.7
Jarvis.....	25	196.8	225.7	.....	28.9
Kemptville.....	60	380.8	466.0	.....	85.2
Kincardine.....	60	866.9	932.6	.....	65.7
Kingston.....	60	16,525.7	18,523.3	.....	1,997.6
Kingsville.....	25	729.7	952.3	.....	222.6
Kirkfield.....	60	27.0	27.0	.....	.....

SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1944-1945—Continued

Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1944	July to Dec., 1945	Decrease	Increase
Kitchener.....	25	30,141.4	31,292.6	.....	1,151.2
Lakefield.....	60	519.7	600.5	.....	80.8
Lambeth.....	25	169.6	206.2	.....	36.6
Lanark.....	60	101.6	136.7	.....	35.1
Lancaster.....	60	66.8	66.4	0.4	.....
LaSalle.....	25	300.8	386.6	.....	85.8
Leamington.....	25	2,386.4	2,664.6	.....	278.2
Lindsay.....	60	3,983.8	4,044.1	.....	60.3
Listowel.....	25	1,656.8	1,685.0	.....	28.2
London.....	25	44,916.1	49,128.5	.....	4,212.4
London Twp.—Voted Area.....	25	672.9	823.7	.....	150.8
Long Branch.....	25	1,656.8	2,024.8	.....	368.0
Lucan.....	25	215.7	266.5	.....	50.8
Lucknow.....	60	452.7	450.7	2.0	.....
Lynden.....	25	121.2	145.8	.....	24.6
MacTier.....	60	136.9	140.7	.....	3.8
Madoc.....	60	236.0	264.4	.....	28.4
Markdale.....	60	207.5	241.4	.....	33.9
Markham.....	25	397.7	483.6	.....	85.9
Marmora.....	60	158.8	189.1	.....	30.3
Martintown.....	60	46.0	53.7	.....	7.7
Maxville.....	60	120.2	155.4	.....	35.2
Meaford.....	60	790.0	949.4	.....	159.4
Merlin.....	25	135.9	171.4	.....	35.5
Merritton.....	25	12,465.5	11,266.6	1,198.9	.....
Midland.....	60	5,007.1	5,179.5	.....	172.4
Mildmay.....	60	163.3	209.6	.....	46.3
Millbrook.....	60	126.3	152.3	.....	26.0
Milton.....	25	1,613.5	1,669.6	.....	56.1
Milverton.....	25	507.5	557.9	.....	50.4
Mimico.....	25	3,209.1	3,968.5	.....	759.4
Mitchell.....	25	787.8	904.5	.....	116.7
Moorefield.....	25	56.4	121.1	.....	64.7
Morrisburg.....	60	336.1	419.6	.....	83.5
Mount Brydges.....	25	103.5	149.7	.....	46.2
Mount Forest.....	60	584.3	794.3	.....	210.0
Napanee.....	60	1,566.3	1,730.0	.....	163.7
Neustadt.....	60	48.8	48.1	0.7	.....
Newburgh.....	60	57.9	63.9	.....	6.0
Newbury.....	25	39.1	47.8	.....	8.7
Newcastle.....	60	176.0	291.8	.....	115.8
New Hamburg.....	25	726.0	775.6	.....	49.6
Newmarket.....	25	2,080.0	2,363.4	.....	283.4
New Toronto.....	25	12,556.8	12,130.6	426.2	.....
Niagara Falls.....	25	11,003.1	13,589.3	.....	2,586.2
Niagara-on-the-Lake.....	25	1,179.6	1,182.3	.....	2.7
North York Twp.—Voted Area.....	25	12,271.7	13,272.4	.....	1,000.7
Norwich.....	25	498.0	565.7	.....	67.7
Norwood.....	60	186.9	223.0	.....	36.1
Oakville.....	25 & 66⅔	1,680.9	1,938.3	.....	257.4

SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1944-1945—Continued

Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1944	July to Dec., 1945	Decrease	Increase
Oil Springs.....	25	196.2	215.8	.....	19.6
Omamee.....	60	222.9	257.5	.....	34.6
Orangeville.....	60	766.2	1,025.1	.....	258.9
Orono.....	60	103.6	150.0	.....	46.4
Oshawa.....	60	18,368.6	19,805.6	.....	1,437.0
Ottawa.....	60	39,929.3	42,978.2	.....	3,048.9
Oterville.....	25	139.0	149.7	.....	10.7
Owen Sound.....	60	6,579.8	7,625.3	.....	1,045.5
Paisley.....	60	133.9	194.2	.....	60.3
Palmerston.....	25	647.8	729.3	.....	81.5
Paris.....	25	2,060.6	2,133.7	.....	73.1
Parkhill.....	25	241.9	334.8	.....	92.9
Penetanguishene.....	60	1,126.7	1,266.1	.....	139.4
Perth.....	60	1,922.0	2,075.1	.....	153.1
Peterborough.....	60	14,573.2	18,091.1	.....	3,517.9
Petrolia.....	25	1,063.5	1,299.0	.....	235.5
Picton.....	60	1,427.6	1,734.7	.....	307.1
Plattsville.....	25	154.0	168.2	.....	14.2
Point Edward.....	25	1,845.6	1,725.2	120.4	.....
Port Carling.....	60	332.4	385.1	.....	52.7
Port Colborne.....	25	1,925.4	2,698.3	.....	772.9
Port Credit.....	25	1,118.0	1,369.7	.....	251.7
Port Dalhousie.....	25	1,203.2	1,267.8	.....	64.6
Port Dover.....	25	638.6	709.8	.....	71.2
Port Elgin.....	60	667.4	794.8	.....	127.4
Port Hope.....	60	2,910.7	3,167.8	.....	257.1
Port McNicol.....	60	115.5	135.6	.....	20.1
Port Perry.....	60	364.7	403.2	.....	38.5
Port Rowan.....	25	127.7	152.5	.....	24.8
Port Stanley.....	25	1,267.6	1,406.8	.....	139.2
Prescott.....	60	1,585.8	1,744.1	.....	158.3
Preston.....	25	4,514.7	4,646.1	.....	131.4
Priceville.....	60	10.0	10.0	.....	.....
Princeton.....	25	156.2	165.5	.....	9.3
Queenston.....	25	169.4	169.0	0.4	.....
Renfrew.....	60	238.6	309.1	.....	70.5
Richmond.....	60	75.5	88.5	.....	13.0
Richmond Hill.....	25	588.6	726.5	.....	137.9
Ridgetown.....	25	711.8	815.8	.....	104.0
Ripley.....	60	111.3	174.1	.....	62.8
Riverside.....	25	1,417.1	1,922.9	.....	505.8
Rockwood.....	25	159.1	193.3	.....	34.2
Rodney.....	25	165.5	209.8	.....	44.3
Rosseau.....	60	40.4	52.8	.....	12.4
Russell.....	60	93.3	112.1	.....	18.8
St. Catharines.....	25 & 66 $\frac{2}{3}$	31,514.4	28,329.4	3,185.0	.....
St. Clair Beach.....	25	126.2	145.5	.....	19.3
St. George.....	25	218.5	244.2	.....	25.7
St. Jacobs.....	25	369.3	408.2	.....	38.9
St. Marys.....	25	1,791.2	1,880.3	.....	89.1

SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1944-1945—Continued

Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1944	July to Dec., 1945	Decrease	Increase
St. Thomas.....	25	8,761.4	9,454.4	.....	693.0
Sarnia.....	25	12,334.4	8,809.2	3,525.2	.....
Scarborough Twp.....	25	5,632.9	7,081.9	.....	1,449.0
Seaforth.....	25	1,060.6	1,268.1	.....	207.5
Shelburne.....	60	277.0	345.2	.....	68.2
Simcoe.....	25	3,106.3	3,327.1	.....	220.8
Smiths Falls.....	60	3,191.2	3,491.8	.....	300.6
Smithville.....	25	221.1	231.0	.....	9.9
Southampton.....	60	784.0	779.9	4.1	.....
Springfield.....	25	79.7	107.5	.....	27.8
Stamford Twp.—Voted Area.....	25	3,347.4	4,138.7	.....	791.3
Stayner.....	60	314.7	379.8	.....	65.1
Stirling.....	60	365.4	450.3	.....	84.9
Stoney Creek.....	25	273.7	372.2	.....	98.5
Stouffville.....	25	401.5	464.1	.....	62.6
Stratford.....	25	8,216.8	8,703.0	.....	486.2
Strathroy.....	25	1,694.8	1,810.7	.....	115.9
Streetsville.....	25	268.5	284.8	.....	16.3
Sunderland.....	60	93.8	117.1	.....	23.3
Sutton.....	25	560.0	628.7	.....	68.7
Swansea.....	25	3,433.0	4,193.7	.....	760.7
Tara.....	60	144.3	183.9	.....	39.6
Tavistock.....	25	750.3	788.7	.....	38.4
Tecumseh.....	25	537.5	561.9	.....	24.4
Teeswater.....	60	175.9	237.9	.....	62.0
Thamesford.....	25	248.9	333.5	.....	84.6
Thamesville.....	25	251.7	315.9	.....	64.2
Theford.....	25	184.0	160.9	23.1	.....
Thornbury.....	60	82.2	115.3	.....	33.1
Thornedale.....	25	101.6	117.6	.....	16.0
Thornton.....	60	41.1	53.4	.....	12.3
Thorold.....	25	3,429.0	3,858.2	.....	429.2
Tilbury.....	25	1,626.0	1,483.8	142.2	.....
Tillsonburg.....	25	1,640.0	2,058.9	.....	418.9
Toronto.....	25	393,919.6	442,134.0	.....	48,214.4
Toronto Twp.—Voted Area.....	25	3,764.8	4,626.5	.....	861.7
Tottenham.....	60	119.9	174.1	.....	54.2
Trafalgar Twp. V.A.—No. 1.....	25 & 66 $\frac{2}{3}$	484.9	639.9	.....	155.0
Trafalgar Twp. V.A.—No. 2.....	25 & 66 $\frac{2}{3}$	186.2	227.8	.....	41.6
Trenton.....	60	5,652.7	6,104.6	.....	451.9
Tweed.....	60	308.0	418.5	.....	110.5
Uxbridge.....	60	370.8	491.7	.....	120.9
Victoria Harbour.....	60	112.2	128.4	.....	16.2
Walkerton.....	60	1,144.6	1,246.9	.....	102.3
Wallaceburg.....	25	4,694.3	5,501.3	.....	807.0
Wardsville.....	25	43.0	68.9	.....	25.9
Warkworth.....	60	88.7	120.5	.....	31.8
Waterdown.....	25	285.6	394.5	.....	108.9
Waterford.....	25	506.7	600.3	.....	93.6
Waterloo.....	25	6,698.4	6,724.5	.....	26.1

SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1944-1945—Concluded

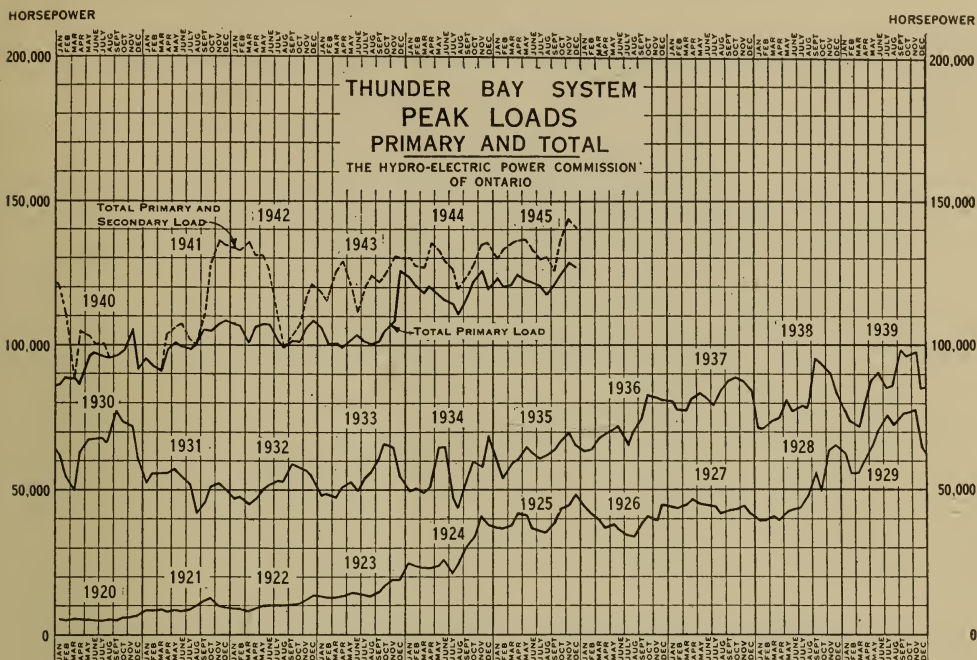
Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1944	July to Dec., 1945	Decrease	Increase
Watford.....	25	425.9	459.5	.....	33.6
Waubashene.....	60	195.3	188.1	7.2	.....
Welland.....	25	13,226.5	12,393.3	833.2	.....
Wellesley.....	25	148.2	162.2	.....	14.0
Wellington.....	60	464.1	442.7	21.4	.....
West Lorne.....	25	262.6	322.6	.....	60.0
Weston.....	25	5,539.5	5,782.8	.....	243.3
Westport.....	60	123.9	147.0	.....	23.1
Wheatley.....	25	226.8	251.3	.....	24.5
Whitby.....	60	1,614.3	1,922.8	.....	308.5
Warton.....	60	376.4	508.4	.....	132.0
Williamsburg.....	60	98.7	133.4	.....	34.7
Winchester.....	60	430.0	485.2	.....	55.2
Windermere.....	60	110.3	121.8	.....	11.5
Windsor.....	25	56,445.0	55,807.5	637.5	.....
Wingham.....	60	866.6	910.3	.....	43.7
Woodbridge.....	25	676.1	843.2	.....	167.1
Woodstock.....	25	9,829.4	9,964.8	.....	135.4
Woodville.....	60	83.2	116.0	.....	32.8
Wyoming.....	25	92.3	141.4	.....	49.1
York Township.....	25	23,257.4	27,703.7	.....	4,446.3
Zurich.....	25	153.2	165.7	.....	12.5

SOUTHERN ONTARIO SYSTEM—LOADS OF NEW MUNICIPALITIES

Municipality	Frequency cycles	Date connected	Peak load in horsepower		Change in load	
			Initial	July to Dec., 1945	Decrease	Increase
Almonte.....	60	Jan. 21, 1945	457.1	435.7	21.4	.....

THUNDER BAY SYSTEM

The plants on the Nipigon river, comprising Alexander and Cameron Falls generating stations, which supply the bulk of the power distributed in the Thunder Bay system and Rainy River district, operated at practically full output during the whole year. On September 30, 1945, the newly installed unit at Alexander generating station was placed in service, thereby raising the normal maximum capacity of this station from 50,000 to 70,000 horsepower. The Ogoki diversion, which commenced in 1943, has increased the water available for generation of power on the Nipigon river sufficiently to operate the Nipigon plants, including the Alexander extension, at load factors above those expected to exist for primary loads on the Thunder Bay system.

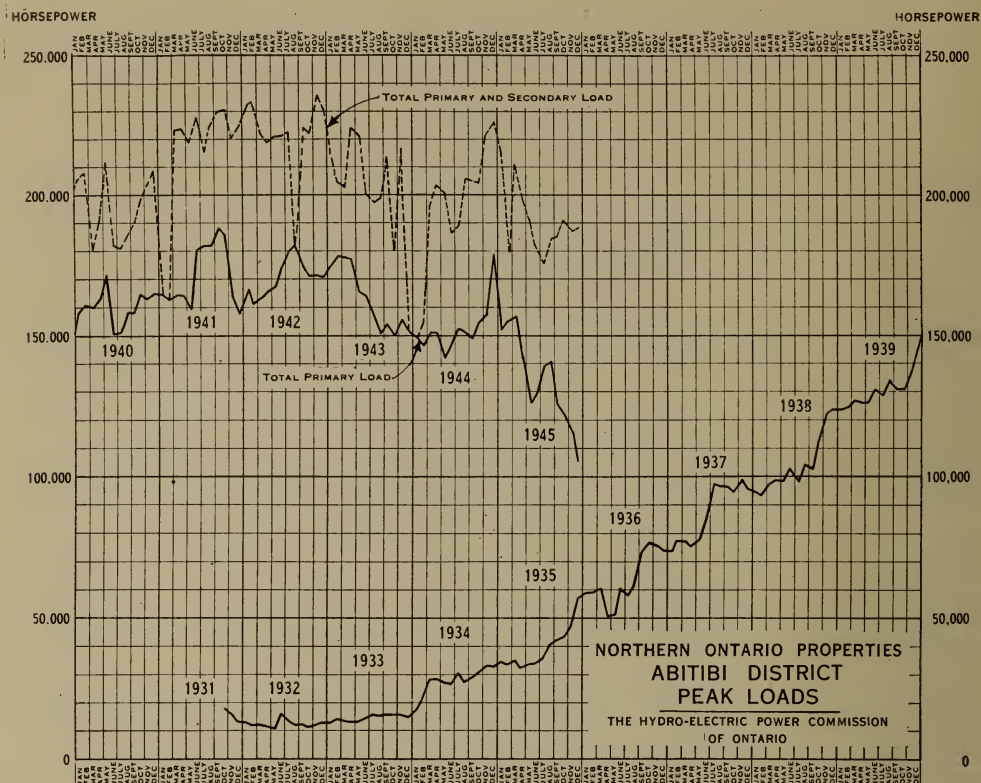


The maximum primary peak demand of the Thunder Bay system was 126,206 horsepower, slightly above the corresponding demand of the previous year. The year's primary energy demands totalled 636,058,180 kilowatt-hours, exceeding that of the previous year by 4.8 per cent. The primary load, as in the previous year, includes power delivered to the Rainy River district of the Northern Ontario Properties.

During most of the year, as in past years, the generating station of the Kaministiquia Power Company, a subsidiary of the Abitibi Power and Paper Company, has been operated in parallel with the Commission's generating stations on the Nipigon river. This has enabled the Abitibi Power and Paper Company, under a standing arrangement, to transfer power for electric steam boiler operation at the paper companies under its control. During the year, 31,788,480 kilowatt-hours were thus transferred which with the surplus energy available from the Commission's plants, produced a total of 112,198,900 kilowatt-hours for electric boiler operation.

THUNDER BAY SYSTEM—LOADS OF MUNICIPALITIES—1944-1945

Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1944	July to Dec., 1945	Decrease	Increase
Atikokan Townsite.....	60	19.3	133.2	.....	113.9
Beardmore Townsite.....	60	92.6	143.2	.....	50.6
Fort William.....	60	18,876.2	19,623.3	.....	747.1
Geraldton Townsite.....	60	582.2	676.8	.....	94.6
Nipigon Twp.--Voted Area.....	60	273.1	330.9	.....	57.8
Port Arthur.....	60	25,482.1	26,343.9	.....	861.8



NORTHERN ONTARIO PROPERTIES

The area served by the Commission on behalf of the Province in northern Ontario was enlarged during the year by the acquisition of the properties of the Northern Ontario Power Company. The new properties are administered by the Commission in trust for the Province under a separate district set up in the Northern Ontario Properties known as the Timiskaming district.

A comparison of the year's end primary loads gives a fair indication of the load trends in these areas. Accordingly, the total primary load (summation of the district primary peaks) of the Northern Ontario Properties rose about 20,000 horsepower from October 1944 to October 1945, an increase of 11 per cent. This increase was the net result of a new load of about 40,000 horsepower resulting from the purchase of the Northern Ontario Power Company's properties and a recession, chiefly at smelting plants, of approximately 20,000 horsepower. The average output for primary power purposes was 11.7 per cent greater. Gold mining activities during 1945 held at about the 1944 level to which it had fallen during the war due to the shortage of labor and supplies.

Abitibi District

The primary peak load of the Abitibi district dropped from 154,557 horsepower in October 1944 to 122,761 horsepower in October 1945, a decrease of 20.6 per cent. About 20,000 horsepower of this decrease resulted from reduced demands of base metal smelting loads, and most of the balance represented the power sold to the Canada Northern Power Corporation for transfer to Quebec, a load transfer which was discontinued shortly after the Commission took over the properties of the Northern Ontario Power Company.

Water storage at the commencement of the year was normal. The spring break-up, coming about one month ahead of time, resulted in a substantial carry-over of the previous winter storage. On the whole, water conditions for the year exceeded normal. Production at the Abitibi canyon plant totalled 999,847,500 kilowatt-hours for the year. This includes 225,780,340 kilowatt-hours of surplus energy generated for delivery to the electric boilers at the paper mills of the Abitibi Power and Paper Company.

The Abitibi district has been operated in parallel with the Timiskaming district under conditions similar to those existing prior to the acquisition of the Northern Ontario Power Company's properties. During the year, inter-connections between the districts have been improved, providing a greater flexibility in the transfer of power. Up to October 31, 1945, a net interchange of 8,500,000 kilowatt-hours passed from the Abitibi district to the Timiskaming district.

Timiskaming District

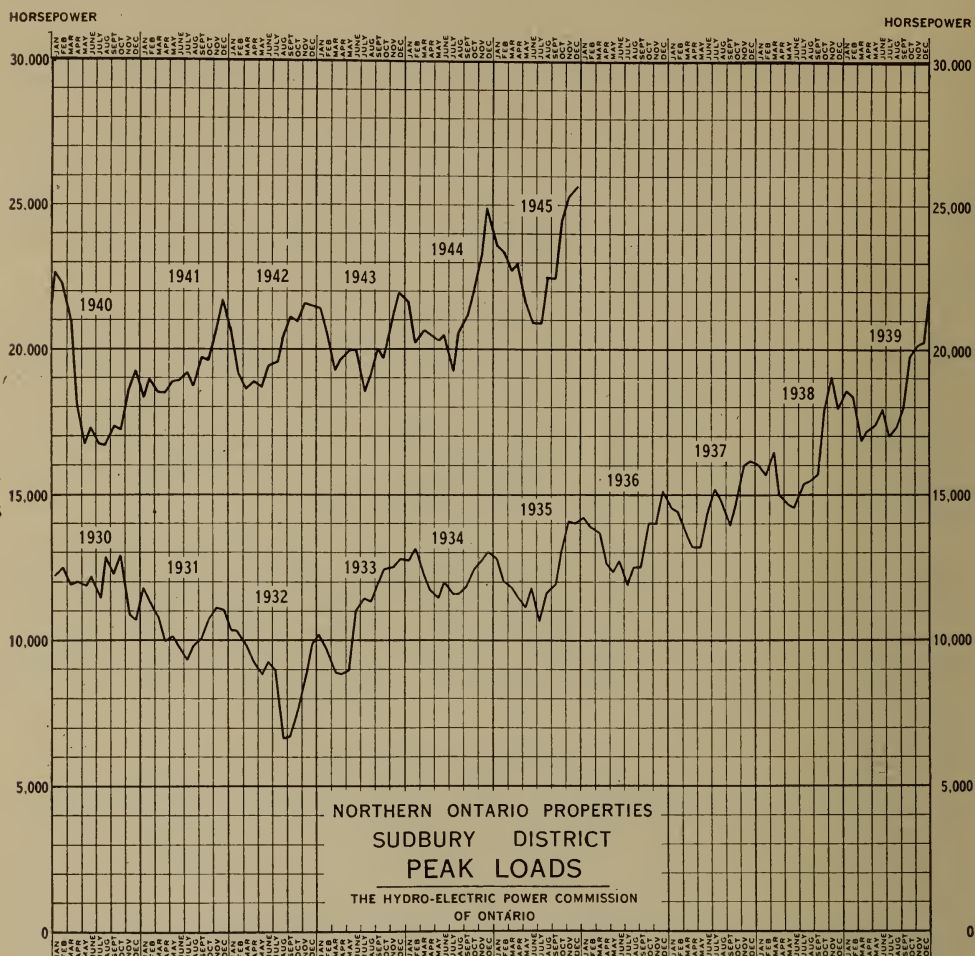
The Timiskaming district is a new district of the Northern Ontario Properties, formed to administer the properties purchased from the Northern Ontario Power Company. The properties were purchased as of December 1, 1944, but the Commission did not take over operation until March 26, 1945, from which date the load of the Timiskaming district is included in the Commission's statistics of operation. The district comprises, besides facilities for the transmission and distribution of power, eight hydro-electric generating stations, four of which operate at 25 cycles with a total normal maximum rating of 36,200 horsepower, and four at 60 cycles with a corresponding rating of 23,700 horsepower.

The maximum peak demand of the Timiskaming district, exclusive of emergency power supplied to Quebec, was 49,129 horsepower. The corresponding energy demand from March 26, 1945, to October 31, 1945, was 139,014,871 kilowatt-hours. All of the above power was for primary distribution.

Sudbury District

The total load of the Sudbury district, all of which was for primary distribution, rose from 21,945 horsepower in October 1944 to 24,598 horsepower in October 1945, an increase of 12.1 per cent. The total energy consumption for the year was 4.1 per cent greater.

Water conditions in the Sudbury district during the fall and winter of 1944-45 were subnormal and it was necessary to purchase, during the above period, a quantity of power and energy from the Sturgeon Falls plant of

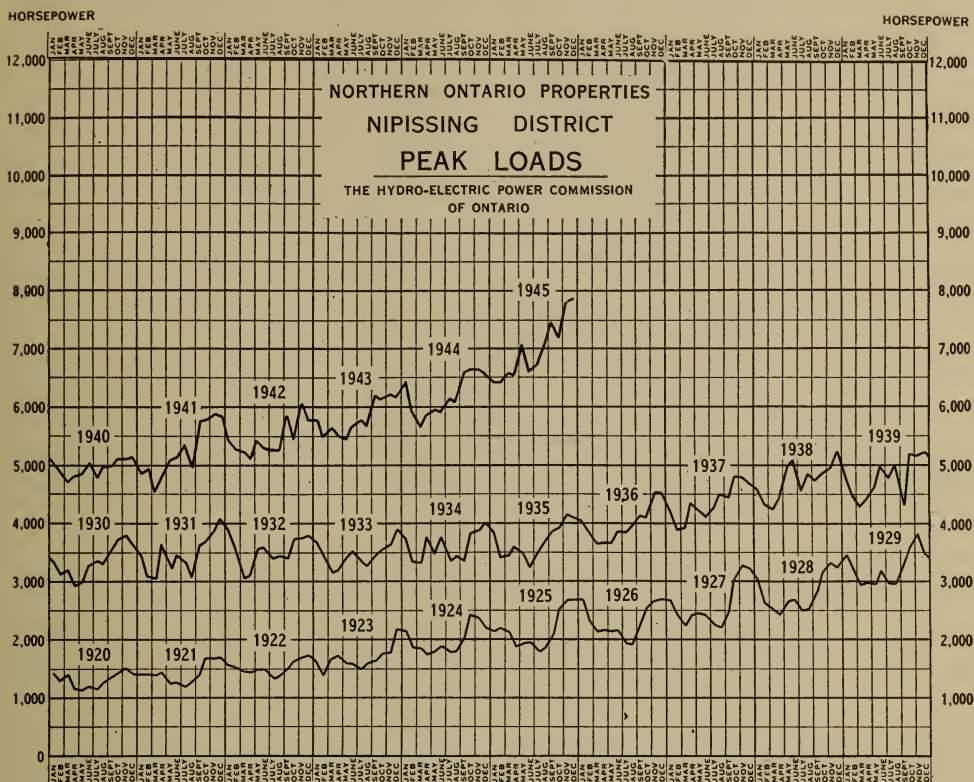


the Abitibi Power and Paper Company to meet the district load demands. An early spring break-up on the Sturgeon and Wanapitei rivers, followed by more than normal precipitation in the early summer, replenished storages and stream flow which enabled the Commission's own plants to produce full district demands from March to September 1945. On September 1, purchase from the Sturgeon Falls plant was resumed, a measure taken to conserve water for the winter season. During the year, 8,500,000 kilowatt-hours were purchased.

Nipissing District

The Nipissing district peak load was 7,205 horsepower in October 1945. Compared with the peak load of the previous October it shows an increase of 7.9 per cent. Energy consumption for the year was 6 per cent greater.

Water conditions in this district have been about normal, but, in recent years insufficient to generate the district load requirements. During 1945, the shortage was approximately 9,420,000 kilowatt-hours, which was supplied from the Sudbury district's resources.



Manitoulin District

The load of the Manitoulin district, which is supplied by purchase from the Manitoulin Pulp Company, rose from a peak load in October 1944 of 540 horsepower, to 723 horsepower in October 1945, an increase of 33.7 per cent. The year's energy requirements increased 26.3 per cent.

Patricia District

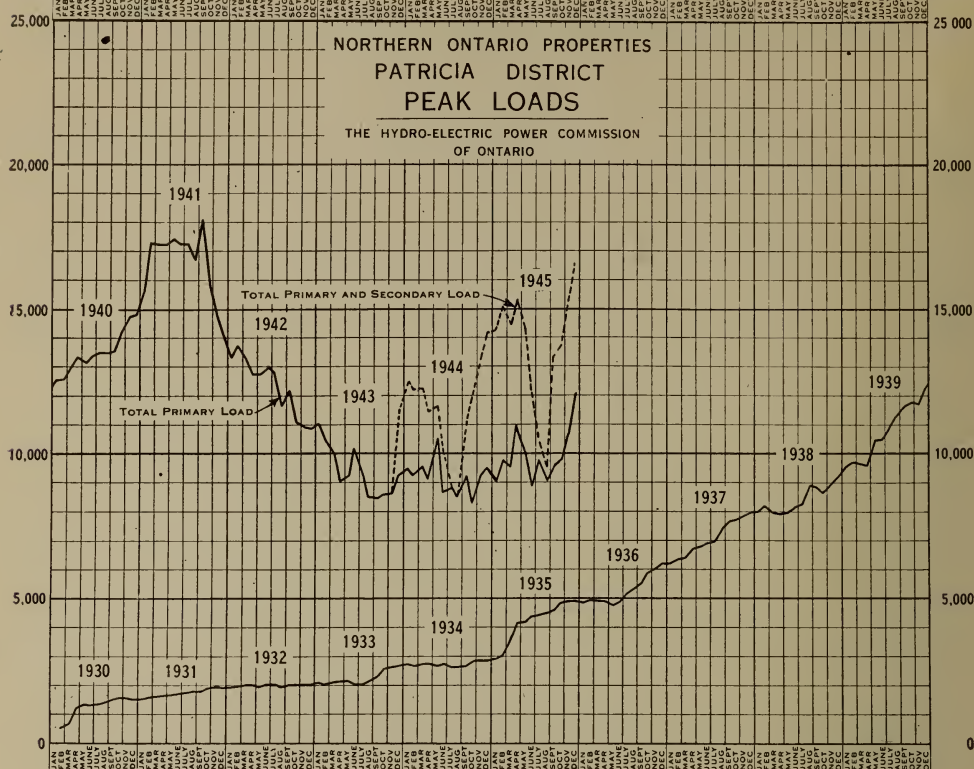
In the Patricia district, the primary peak loads in October 1944 and 1945 were 8,358 horsepower and 9,866 horsepower, respectively, showing an increase of 18 per cent. Most of this increase resulted from power supplied to the Dryden Paper Company, this power being supplied on an at-will basis. Demands of the gold mines in this district have changed little from the previous year. Exclusive of primary power, 21,424,000 kilowatt-hours were supplied to four mining companies for the operation of electric boilers during the year.

Rainy River District

Power for the Rainy River district is purchased from the Thunder Bay system at cost. The district supplies power to the Steep Rock Iron Mines Limited and the Ontario-Minnesota Pulp and Paper Company, to replace the output from the company's Moose Lake generating station, made in-operative by the development of Steep Rock mine. On December 14, 1944, a small distributing station was placed in service to supply power to Atikokan townsite. During the year the average of the monthly peak loads supplied to the district was 18,644 horsepower.

HORSEPOWER

HORSEPOWER



NORTHERN ONTARIO PROPERTIES—LOADS OF MUNICIPALITIES—1944-1945

Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1944	July to Dec., 1945	Decrease	Increase
ABITIBI DISTRICT					
Hislop Townsite.....	25	33.1	48.5	.....	15.4
Kearns Townsite.....	25	117.8	112.3	5.5	.....
King Kirkland Townsite.....	25	32.4	40.6	.....	8.2
Matachewan Townsite.....	25	162.7	235.0	.....	72.3
Mooretown.....	25	40.2	49.1	.....	8.9
Ramore & Matheson.....	25	128.4	182.6	.....	54.2
SUDBURY DISTRICT					
Capreol.....	60	282.6	365.3	.....	82.7
Sudbury.....	60	11,327.0	12,683.1	.....	1,356.1
NIPISSING DISTRICT					
Callander.....	60	96.9	119.6	.....	22.7
Nipissing.....	60	3.0	3.0	.....	.....
North Bay.....	60	5,305.6	6,031.5	.....	725.9
Powassan.....	60	128.4	148.9	.....	20.5
PATRICIA DISTRICT					
Cottage Cove.....	60	55.9	71.8	.....	15.9
Hudson.....	60	72.8	105.2	.....	32.4
Red Lake Townsite.....	60	160.3	229.3	.....	69.0
Sioux Lookout.....	60	345.8	442.2	.....	96.4

MAINTENANCE OF THE SYSTEMS

Power demands were greater during the past year than during any year since the outbreak of war and have placed a continued strain upon the physical structures of the Commission, which owing to the restrictions on labor, equipment and supplies, had to carry on during the long war years on the basis of bare maintenance. Nevertheless, all equipment essential to maximum service has been maintained in efficient operating condition. No better evidence of this can be found than the absence of any serious failures during the year.

At the power houses, inspection and routine maintenance was carried out on all turbines, generators and auxiliary equipment. During the year six turbines of 10,000 horsepower or greater and eight turbines under 10,000 horsepower capacity were completely dismantled and thoroughly overhauled. New armature windings were installed in No. 14 generator at the Ontario Power plant and No. 8 generator at the Toronto Power plant and also in three small generators at the Big Chute and Hanover generating stations.

Several transformers of varying sizes were rebuilt and restored to service during the year. Transformers at a number of distributing stations were replaced by ones of larger capacity to meet local load conditions. A certain amount of work was carried out modernizing equipment and layout at a number of stations.

Transmission lines were regularly patrolled. During the year about 3,000 defective wooden poles were replaced. Nearly 25,000 poles were given butt treatment to retard rot. Insulators were systematically checked, involving several thousand units, and defective units were replaced to forestall failure and the resultant interruptions to service. Underbrushing of right-of-ways, which had been deferred during the war years, was extended in 1945 owing to the easing of the labor situation in the latter part of the year.

FORESTRY DIVISION

Forestry division activities continued to suffer early in the year because of loss of personnel to military service. The co-operation of Operating and Rural department linemen has made possible the amount of work performed which was facilitated by the Department of Highways.

Transmission and rural maintenance line clearing operations during the fiscal year involved treatment of 63,139 trees and the removal of 302 spans of brush, spread over 2,746 miles of line.

Municipal line clearing operations have been curtailed until the Forestry field staff is restored to its customary strength.

Reforested areas in the vicinity of Eugenia and Trenton were heavily infested by the pine saw fly. To control the insects approximately 175 acres were sprayed with D.D.T. applied by an autogyro. Definite results cannot be determined until the summer of 1946.

Spraying of trees and shrubs was continued on Commission-owned properties in the Eastern and Niagara divisions for the control of various insects and fungus diseases.

SECTION III

MUNICIPAL WORK

AT the end of 1945 the Commission was serving 922 municipalities in Ontario. Of this number about two-thirds or 577, including 120 villages and 457 townships are served as an amalgamated rural division of Hydro service (dealt with in Section IV of this Report), and about one-third or 300 are supplied with power by the Commission under cost contracts and operate their own Hydro utilities either as a separate service or as part of a public utilities organization. In addition 45 municipalities are operated direct by the Commission or are served under other forms of contract. This section of the Annual Report deals with the Commission's work in connection with these urban municipalities which operate their own Hydro utilities.

The Commission acts in an advisory capacity to the municipalities with which it has contracts, and assists municipal officials to purchase, construct or extend distribution systems. As provided under The Power Commission Act, all rate adjustments are approved by the Commission, therefore, a study of the operating conditions of all utilities is made annually and adjustments recommended.

Municipalities Served

During the year the Commission provided power to a number of municipalities under the following conditions—

NEW MUNICIPALITIES

Cost contract agreements were entered into and service supplied to the Towns of Almonte, Renfrew and Thornbury.

MUNICIPALITY FORMERLY BILLED AT A FIXED RATE

During the year the Commission entered into a new contract with the town of Newmarket, by which the cost of power was changed from a fixed rate per horsepower to a regular cost contract.

HYDRO OWNED SYSTEMS SOLD TO MUNICIPALITIES

The Hydro owned systems in the town of Burlington and the village of Braeside were sold to these municipalities and regular contracts entered into for their supply of power on a cost basis.

NEW TOWNSITES SERVED

The Commission constructed new distribution facilities in Atikokan townsite to provide service to consumers directly by the Commission.

NORTHERN ONTARIO POWER COMPANY

The Northern Ontario Power Company properties were purchased during the year. In all 12 municipal systems came under Hydro operation in the following places:

Towns of Cobalt, Englehart, Haileybury, New Liskeard and Timmins; townsites of Earlton, Elk Lake, Kirkland Lake, Schumacher, South Porcupine and Swastika; organized township of Bucke.

Increased Municipal Loads

The transition from war to post-war conditions affected the municipal Hydro utilities in different ways but on the whole the additional use of electricity following the lifting of restrictions, the return to standard time for the winter months, and the ending of the need for rigid economy in the use of electricity in the home, more than offset the reductions in demand for war industry.

Comparing the period July to December, 1945, the transition stage following victory, with the corresponding period of the previous year when war production was maintained at about its peak output, there were increases in peak load demands by 303 Hydro utilities, no change in 3, and decreases in only 23. The change from Day-light Saving time in October 1945 to Standard time produced in most municipalities an indeterminate increase, which accounts in part for the demands established after October 1945. This record emphasizes the steady character of the municipal load and augurs well for Hydro stability and progress in the future.

Statistical Summary of Growth by Utilities

The annual growths in revenue and kilowatt-hour consumption, also the reduction in the average cost per kilowatt-hour from 1914 to 1944 for all domestic and commercial consumers are shown in the accompanying tables and graphs. The figures include all the municipal utilities listed in Statement "D" of Section X of this Report and also those municipal utilities owned and operated by The Hydro-Electric Power Commission of Ontario.

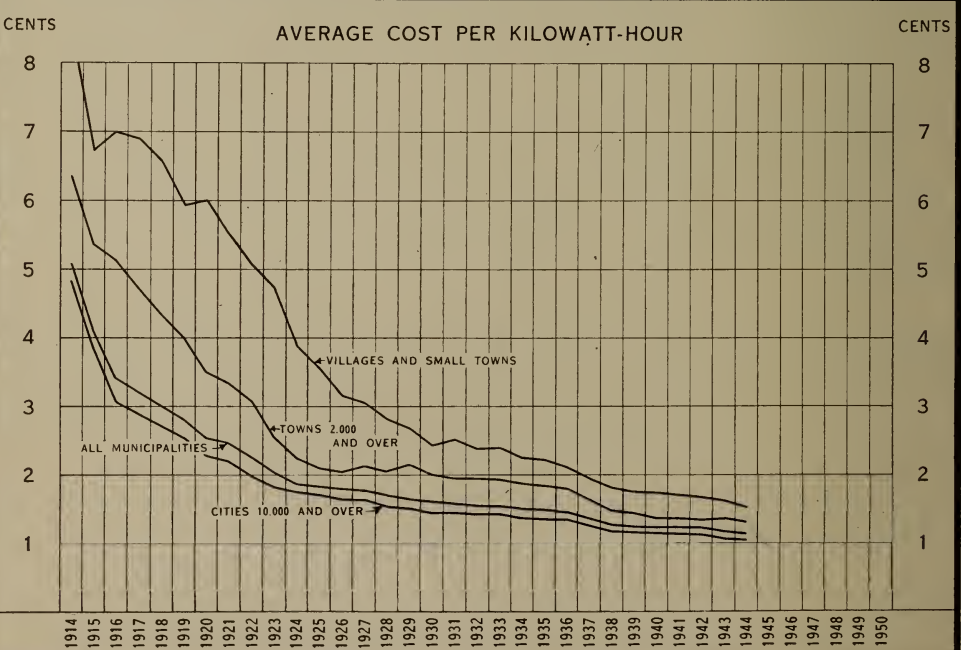
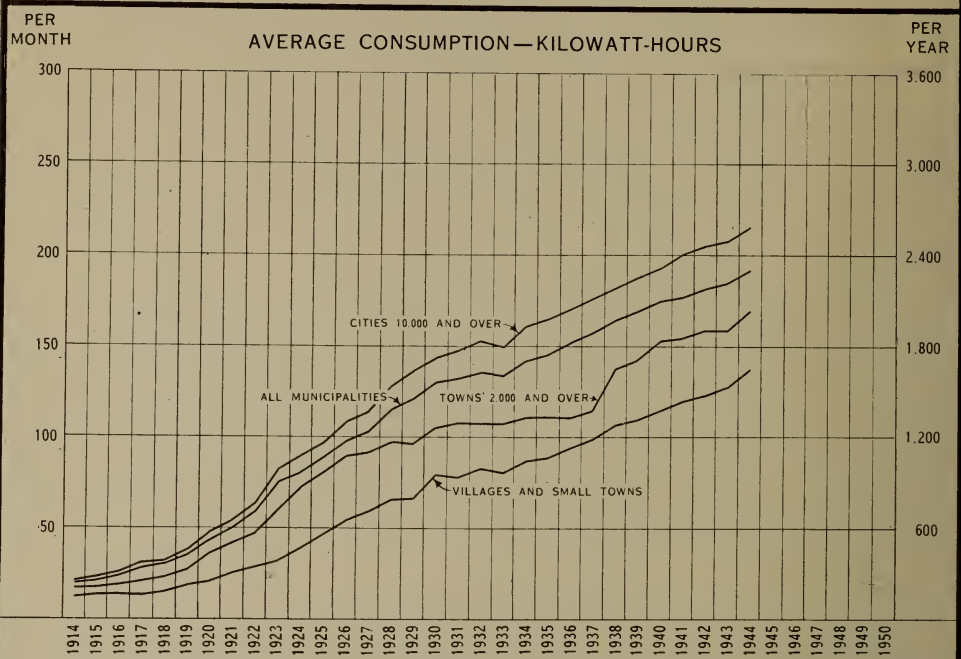
The tables give complete information for "all municipal utilities combined" for both domestic and commercial services; the graphs show only increased use and decreased cost for domestic and commercial services but give these data for cities, towns and villages as well as for "all municipalities combined."

It should be noted that the reduction in average cost per kilowatt-hour shown in accompanying tables is only in part due to reductions in rates or prices to consumers. Credit for the reduction in average cost belongs chiefly to the promotional form of modern rate schedules which are designed to give consumers the benefit of the low overall costs of providing additional energy by means of distribution facilities already established.

Under such promotional rate schedules, providing the initial rates are not too high, there is established a beneficial cycle of increased use, leading to lower average costs, which if passed on to consumers in the form of lower rates or prices starts a repetition of the cycle. Under the Hydro practice of giving service at cost the promotional feature is inherent in the rate schedules, and the annual review of operations made by the Commission leads to appro-

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

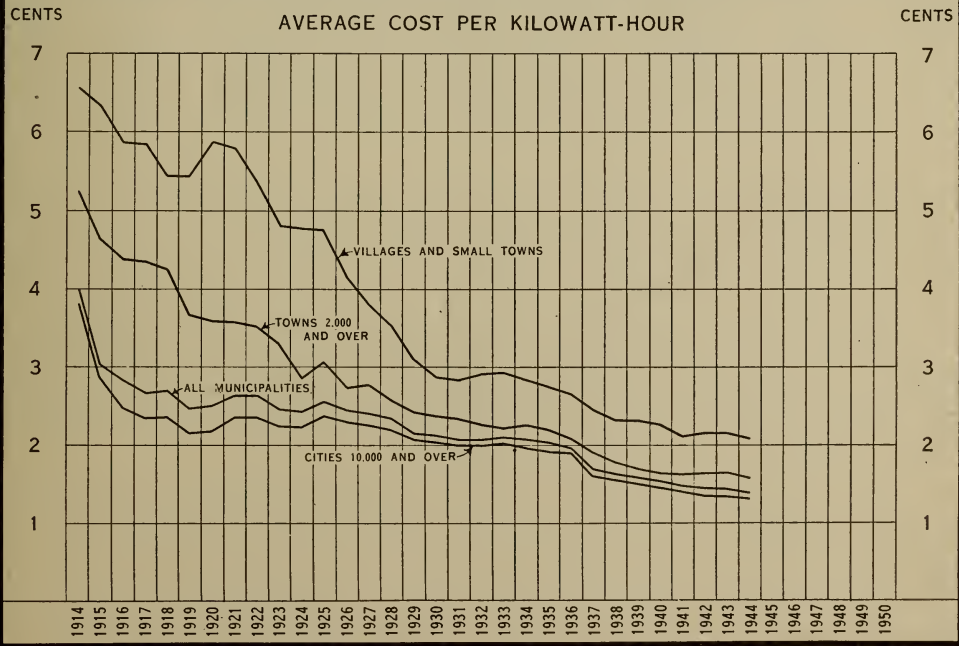
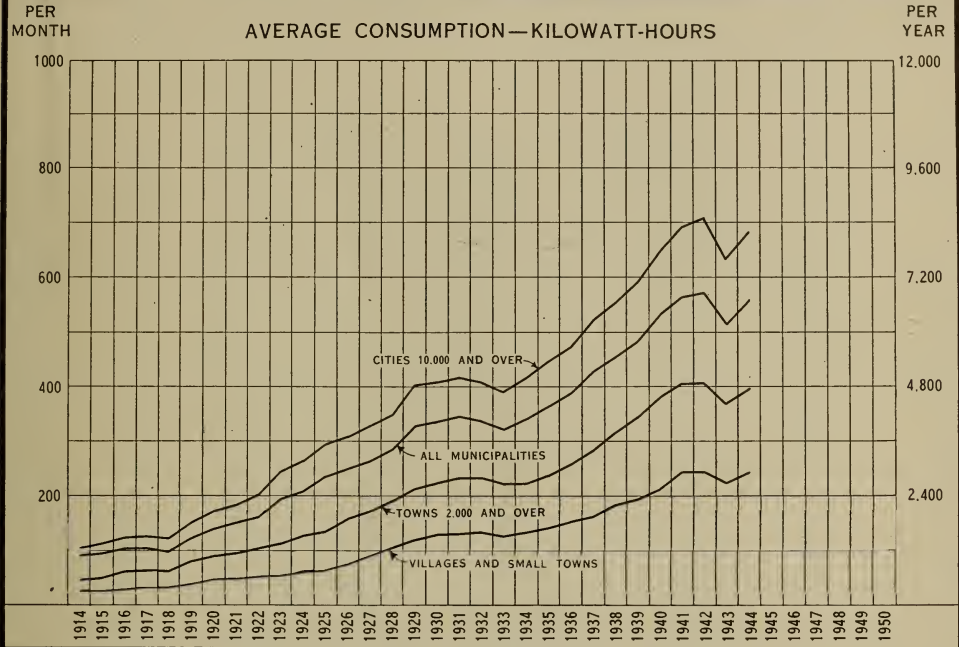
INCREASED USE BRINGS LOWER UNIT COST
DOMESTIC SERVICE



THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

LOW UNIT COST PROMOTED BY INCREASED USE

COMMERCIAL LIGHT SERVICE



GROWTH IN HYDRO DOMESTIC SERVICE 1914 TO 1944

ALL URBAN MUNICIPALITIES COMBINED

Year	Number of municipalities	Annual revenue	Kilowatt-hours consumed	Number of consumers	Average cost per kw-hr	Average monthly bill	Average monthly consumption
		\$			cents	\$ c.	kw-hrs
1913....				49,200			
1914....	49	730,168	14,359,100	64,866	5.08	1.06	21
1915....		854,748	20,935,000	85,865	4.08	0.92	22
1916....		992,628	29,359,900	108,364	3.42	0.82	24
1917....	123	1,340,855	41,930,200	131,313	3.20	0.91	29
1918....		1,583,677	52,731,700	146,885	3.00	0.92	31
1919....		1,933,577	68,409,100	169,455	2.82	1.01	35
1920....	166	2,514,658	98,211,000	193,892	2.56	1.15	45
1921....		3,086,051	124,619,800	219,465	2.48	1.24	50
1922....		3,761,172	166,182,000	245,577	2.26	1.34	59
1923....	206	4,955,420	242,926,600	286,852	2.04	1.54	76
1924....		5,548,835	292,608,400	303,787	1.89	1.56	80
1925....		6,414,134	342,356,700	326,307	1.85	1.67	90
1926....	242	7,353,394	404,722,959	349,882	1.81	1.79	98
1927....	267	8,497,190	469,851,690	387,573	1.80	1.87	103
1928....	268	9,411,812	551,010,035	408,071	1.71	1.97	115
1929....	273	10,256,860	612,141,722	424,419	1.67	2.05	122
1930....	273	10,752,720	671,028,310	433,260	1.61	2.09	130
1931....	289	11,226,091	704,784,457	447,466	1.59	2.12	133
1932....	298	11,676,222	740,900,418	452,615	1.57	2.15	136
1933....	300	11,639,178	742,195,402	460,878	1.57	2.10	134
1934....	300	12,078,069	797,532,709	463,913	1.51	2.17	143
1935....	302	12,393,536	826,972,873	471,265	1.50	2.19	146
1936....	302	12,922,466	881,972,324	482,557	1.47	2.23	152
1937....	305	12,680,921	926,350,703	490,140	1.37	2.16	157
1938....	312	12,880,180	1,003,489,453	507,132	1.28	2.12	165
1939....	317	13,300,898	1,056,310,109	518,123	1.26	2.14	170
1940....	317	13,905,290	1,115,888,837	531,514	1.25	2.18	175
1941....	320	14,452,796	1,169,273,964	546,613	1.24	2.20	178
1942....	323	15,022,931	1,224,195,712	559,605	1.23	2.24	182
1943....	323	15,069,547	1,266,930,625	570,470	1.19	2.20	185
1944....	323	15,528,445	1,348,099,019	579,890	1.15	2.23	194

private rate reductions from time to time, although reduced average cost is chiefly a function and evidence of increased average use.

Reductions in Rates and Refunds to Consumers

During 1945 the Commission recommended and approved an adjustment in rates for domestic, commercial and power consumers in urban municipalities receiving power from the Commission. These reductions involved 255 municipal utilities, the consumers of which will benefit by an aggregate amount exceeding \$3,300,000 per annum.

The Commission also recommended and approved refunds to consumers in urban municipalities where the municipal Hydro surplus in the form of cash or bonds had accumulated during recent years in excess of the amounts estimated as required for plant construction, maintenance, etc., in the next few years. The total refunds to consumers amounted to more than \$485,000.

GROWTH IN HYDRO COMMERCIAL LIGHT SERVICE
1914 TO 1944—ALL URBAN MUNICIPALITIES COMBINED

Year	Number of municipalities	Annual revenue	Kilowatt-hours consumed	Number of consumers	Average cost per kw-hr	Average monthly bill	Average monthly consumption
		\$			cents	\$ c.	kwhrs
1913.....				13,113			
1914.....	43	624,781	15,669,700	15,657	4.00	3.63	91
1915.....		649,585	21,444,900	19,324	3.03	2.95	97
1916.....		753,784	26,866,000	22,216	2.82	2.87	102
1917.....	123	860,475	31,983,500	27,453	2.69	2.77	103
1918.....		947,769	35,053,500	29,570	2.70	2.70	99
1919.....		1,158,406	47,087,000	33,307	2.46	3.03	123
1920.....	166	1,477,963	59,336,900	36,496	2.50	3.51	140
1921.....		1,818,211	68,863,500	39,333	2.64	3.98	151
1922.....		2,143,981	81,216,000	43,098	2.64	4.26	162
1923.....	206	2,613,257	105,482,600	46,383	2.46	4.80	196
1924.....		2,907,427	120,474,800	50,137	2.41	4.99	207
1925.....		3,836,946	151,555,200	56,018	2.54	5.98	235
1926.....	242	4,176,595	171,797,014	58,444	2.43	6.08	250
1927.....	267	4,823,781	200,606,137	64,039	2.40	6.39	267
1928.....	268	5,436,795	234,526,831	68,013	2.32	6.66	287
1929.....	273	5,893,217	272,343,330	70,106	2.16	7.11	329
1930.....	273	6,094,871	287,838,022	71,873	2.11	7.15	338
1931.....	289	6,377,520	305,121,640	75,286	2.09	7.20	344
1932.....	298	6,402,882	306,596,543	75,705	2.09	7.05	338
1933.....	300	6,149,792	292,335,489	75,443	2.10	6.79	323
1934.....	300	6,344,921	306,632,722	75,016	2.07	7.05	341
1935.....	302	6,601,461	327,413,421	74,884	2.02	7.35	364
1936.....	302	7,001,893	355,235,553	75,878	1.97	7.69	390
1937.....	305	6,676,968	393,067,119	76,620	1.70	7.26	428
1938.....	312	6,909,454	427,020,841	78,021	1.62	7.38	456
1939.....	317	7,256,262	459,635,100	78,949	1.58	7.66	485
1940.....	317	7,785,024	508,986,422	79,512	1.53	8.16	533
1941.....	320	7,991,091	540,995,581	79,824	1.48	8.34	565
1942.....	323	7,695,928	531,680,336	77,326	1.45	8.29	573
1943.....	323	6,787,241	472,129,977	76,194	1.44	7.42	516
1944.....	323	7,298,848	524,905,356	78,256	1.39	7.77	559

In addition the Commission adopted a uniform rate for most mining townsites served by the Northern Ontario Properties, the local distribution systems of which are owned and operated by the Commission. This will benefit the consumers by more than \$19,000 per annum.

The mines of Northern Ontario continued to benefit by rate reductions announced last year, which came into operation on January 1, 1945. It is estimated that the total annual saving in power costs to the mines as a result of these rate reductions will exceed \$500,000.

Financial Progress of Municipal Electric Utilities

The consolidated balance sheet, published on page 197 of this Report, shows a total plant value in Hydro utilities of \$106,346,101 against which is a debenture balance debt of \$10,612,595. However, some municipalities are accumulating a sinking fund to pay for debentures at maturity and up to 1945 this fund amounted to \$4,952,718. If this sinking fund is deducted from

the debenture balance debt the actual unpaid debenture debt would be \$5,659,876 or about 5 per cent of the original value of the distribution systems.

Automatic reduction in the debenture debt, due to the annual principal or sinking fund payment being provided for out of revenue, and the remarkable accumulation of assets reflect a satisfactory financial condition of the Hydro utilities generally. Statement "A" of this Report shows the relation of assets to liabilities in 304 municipalities. In 92 per cent of these municipalities the quick assets such as cash, bonds, accounts receivable and inventories exceed in value the total liabilities, including the debenture balance and their Hydro utilities may fairly be considered as being out of debt.

Engineering Assistance to Municipalities

In its advisory capacity the Commission gave general engineering assistance to municipalities especially in preparing estimates for expenditures to be made in the post-war period. The assistance given relates to deferred maintenance and rehabilitation of the local systems, to the design of more modern street lighting facilities, the preparation of estimates for increased substation facilities, the taking on of new industries and the general utilization of Hydro service. The more important matters concerning which advice was given are briefly tabulated below.

SOUTHERN ONTARIO SYSTEM

Niagara Division

Agincourt—The capacity of the distribution system was increased to supply power for a manufacturer of wax products.

Amherstburg—The 4,000 volt lines on Sandwich street were relocated to permit landscaping of the north entrance to the town.

Ancaster Township Voted Area—New housing facilities, provided in this area made it necessary to change the power supply from a point near Dundas to the village. A new station was constructed by the Commission and many main feeder lines were re-routed within the municipality.

Aylmer—Changes were made in the distribution system to provide service to a new industry which will take approximately 500 horsepower.

Aurora—The capacity of the distribution system was increased to supply power to a manufacturer of aluminum products.

Ayr—Service to new power customers involved changes. A bank of transformers was centrally placed and power at motor voltage was supplied to feed mills and a saw mill.

Baden—Increased power facilities were provided to serve additions to a large linseed oil plant. Power is now supplied at 13,200 volts instead of 4,000 volts as formerly.

Blenheim—Distribution transformer capacity was increased to supply new and increased power loads.

Brantford Township Voted Area—Sites were obtained and equipment ordered for two new substations of the unit type each having a capacity of 1,000 kva with two 4,000-volt feeders. They will be supplied at 26,400 volts and serve the northern and eastern sections. The boundaries of the

voted area have been extended to include a portion of the district previously served by the Brant rural operating area.

Brigden—Distribution transformer capacity was increased to supply two new consumers operating chopping mills and feed supplies.

Burford—Work on remodelling the distribution system was carried out in accordance with plans submitted including a new bank of transformers for supplying power customers.

Burlington—The Burlington distribution system was acquired in the purchase of assets of the Dominion Power and Transmission Company by this Commission in 1930. The municipality has now decided to purchase its local distribution system from the Commission and passed the necessary by-laws. Ownership passed to the Corporation on January 1, 1945.

Cayuga—New power customers, including a saw mill and feed grinding mills, were supplied with power.

Chatham—Work was started on the new municipal station on Grand avenue, and plans were completed to lay a 26,000-volt submarine cable to supply this station.

Plans were also initiated to construct a new municipal station in the west section of the city. The 4,000-volt circuit capacity in this section was increased to supply new industrial loads.

East York Township—Plans and specifications were prepared for a new 1,875-kva substation which will go into service early in 1946.

Essex—Suitable property was purchased and plans were made for a new building to accommodate utility office quarters, line supplies and trucks.

Etobicoke Township—Improved street lighting utilizing modern fixtures and equipment throughout was installed on the main thoroughfares within the Township. In addition, facilities were provided to supply six new large power customers who are constructing plants within the area.

Forest—Distribution transformer capacity was increased to supply new power consumers.

Glencoe—Distribution transformer capacity was increased to supply new power consumers.

Guelph—An additional 13,200-volt feeder from the Commission's transformer station to the main substation in the city, has been provided. A new substation will be built to house the 1,500-kva transformer purchased last year.

Hespeler—New street-lighting units of modern design were installed on a portion of the main business intersection.

Kitchener—Adequate storage facilities for transportation equipment and the handling of materials are being provided. A plan to modernize the street lighting system in certain sections of the city was also undertaken.

London—Plans were made for the installation of an additional 13,200-volt feeder from London high-tension station to Ridout street station. It is to be partly overhead and partly underground.

New Hamburg—A suitable property was purchased by the local Commission for the installation of a 1,000 kva, outdoor type station.

Newmarket—In 1915 the corporation of the town of Newmarket entered into a contract for a supply of power, with the Toronto and York Radial Railway Company. In 1920 this Company was acquired by the Commission, which since then has supplied the town with power under the terms of the agreement signed with the Company. This agreement expired during the year, and the matter of entering into a new contract with the Commission on the co-operative plan was submitted to the electorate and voted upon favourably, with the result that the Corporation is now operating its own system as a Hydro cost-contract municipality.

New Toronto—Owing to a very large development in a number of industries in New Toronto, together with an increase in load, it was necessary during the year to make provision whereby five large power consumers would receive their power at 26,400 volts.

North York Township—The substations required for the transformation of power from 26,400 volts to 4,000 volts were installed and have been owned by this Commission since the inception of the North York Hydro-Electric Commission. Rapid development and growth in this area made it possible for the local Commission to own its own four substations, and arrangements were made for their purchase.

Parkhill—Preliminary investigations were undertaken regarding the removal of poles from the business section of the main street and also the installation of a modern street lighting system.

Petrolia—Plans were completed and construction commenced on a new building on Petrolia street to accommodate office quarters, trucks, materials and equipment of the utility.

Port Stanley—Arrangements were made for additional property in connection with the enlarging of this Commission's distributing station. Investigations were also carried out in regard to the incoming and outgoing feeders at this station.

St. Marys—To provide for increased power loads, the 13,200-volt line from the local substation was extended approximately one-half mile and a 600 kva, three-phase, 13,200/550-volt transformer was installed at Water and Jones streets.

St. Thomas—Plans were made for the installation of a second 13,200-volt feeder to take care of a large increase in power load in the north-east of the city. This feeder will be underground for 3,500 feet and overhead for 3,750 ft.

Plans also were made for the installation of two step-down stations with new connecting underground primary 13,200-volt cable for a distance of 2,500 feet.

Sarnia—Plans were completed to place the 4,000-volt primaries underground in the business section. Work was commenced on the installation of ducts and transformer vaults. The 4,000-volt distribution system was extended to supply a large block of new homes.

Smithville—An important development took place in this area, brought about by the construction of a large alfalfa dehydrating plant. Since this customer will require approximately 600 horsepower, arrangements were made with the Company to take this power at 13,200 volts. Improved facilities to smaller power users in the area were also made.

Stamford Township Voted Area—Increased demands for service have necessitated additional station capacity. Investigation of the requirements indicated that a new station to serve the northern portion of the area was necessary. Plans and estimates were submitted and orders placed for a unit-type station of 1,500-kva capacity. New 4,000-volt feeders and tie lines are also planned. It is expected most of this work will be completed in 1946.

Stratford—In order to supply two new power consumers, one of which requires both 550 volts, three-phase and 220 volts, three-phase, two power banks were erected each with a capacity of 150 kva. The second consumer owns the transformers, with a total capacity of 225 kva.

Strathroy—A spare 500 kva transformer was added to the station with pad and structure accommodation for two additional 500 kva transformers to make up a future three-phase bank.

Thorold—Plans for a new 1,875-kva station have been prepared and the material ordered. This station will provide additional capacity for the increased demands and relieve the overload on the present station. When materials are available, a second station will be constructed.

Tillsonburg—Plans have been made for extensive changes to improve the street lighting on Broadway and Simcoe streets.

Wallaceburg—The 4,000-volt distribution system was extended and the capacity increased to supply new industrial loads. Plans for the construction of a new municipal station on the west side of the town to meet increasing load growth were proceeded with.

Welland—A large rubber products plant enlarged its facilities, making it desirable that its present power, as well as that required for the additions, be taken at 26,400 volts, replacing former services at a lower voltage.

West Lorne—Approval has been obtained and the property purchased for the erection of a building for office, material stores and trucks. The building will not be erected until materials become more plentiful.

Wheatley—Plans were completed and work started on the installation of an ornamental street lighting system in the business section.

Woodstock—Approval was obtained and a suitable site purchased for the erection of an office building with accommodation for truck, tools and material stores of the utility. This building will not be constructed until materials and labour become more plentiful.

Plans were prepared to supply 600 horsepower to a wood-working plant in the southeast part of the city.

York Township—Modern street lighting facilities were installed on the main thoroughfares throughout this area. It is expected that traffic conditions will be improved and the liability to accidents greatly reduced.

Georgian Bay, Division

Arthur—Plans are being prepared for improving the service to this municipality. These involve rebuilding the feeder line supplying the town, raising the feeder voltage to 12,000 and providing a new transformer station of 300 kva capacity to step down from 12,000 to 4,000 volts at Arthur.

Alliston—Extensive changes were carried out on the distribution system and transformer banks were erected for three new power consumers.

Barrie—The erection of a large industrial plant with other substantial growth in load necessitated the installation of another 3,000-kva substation in the Allandale section of the town. A large portion of the series street lighting was converted to multiple. Service was provided for the artificial ice plant in the Arena.

Collingwood—Arrangements were made by the local Commission to supply 400 to 600 horsepower to a large furniture manufacturing plant being installed in the former Clyde Aircraft building.

Another new industry, manufacturing leather hassocks, is equipping a plant which will utilize approximately 75 horsepower.

Durham—The distribution system was extended and a bank of transformers erected to supply 40 horsepower to a new furniture company.

Work was partially completed in connection with changing the transmission voltage to Durham from 22,000 to 38,000 volts, with a corresponding change in voltage and an increase in the capacity of the transformers in the substation from 450 to 600 kva.

Dundalk—Work was partially completed in connection with changing the transmission voltage from 22,000 to 38,000 volts with an increase in the capacity of the station transformers from 225 kva at 22,000 volts to 600 kva at 38,000 volts.

Elmwood—The distribution system was extended and a bank of three 15 kva transformers erected to supply a new chopping mill.

Negotiations were also carried out in connection with a prospective load of approximately 60 horsepower for a woodworking plant.

Flesherton—In connection with the change of the transmission lines south of Flesherton, from 22,000 to 38,000 volts, the transmission lines through the village were removed from the main thoroughfares by diversions, joining up again with the lines at a point south and west of the village.

Grand Valley—Work was partially completed in connection with changing the transmission voltage from 22,000 to 38,000 volts with a corresponding voltage change in the station transformers.

An investigation was also made re providing additional station capacity by removing from the Grand Valley station the load of the village of Arthur and the rural load and providing a new station for these loads.

Gravenhurst—A new pumping installation was completed, consisting of two 40 horsepower motors with automatic pressure and time control.

Hanover—Studies were made and plans completed to improve the distribution system by constructing two new feeders from the substation to take care of present loads and future growth.

Arrangements were made to provide a bank of three 125 kva transformers at a large flour mill, replacing a bank of 75 kva units. The new bank will provide capacity for load increase at this mill of approximately 150 horsepower plus an increase of load at a nearby furniture company of approximately 50 horsepower.

Negotiations were also conducted re supply of load to a new furniture company expected to have a small initial load of approximately 10 horsepower.

Huntsville—A new 1,000-kva rural substation was erected to relieve the serious overloaded condition on the municipal station.

Kincardine—A new power feeder was constructed from the substation to a knitting company to take care of load increase of approximately 200 horsepower expected in this plant.

Additional substation capacity is also being arranged by the removal of the rural load from the municipal station, leaving the total capacity of the present station available for the municipal load. A new substation is being provided for the rural load.

Lucknow—Arrangements were made during the year to supply approximately 80 horsepower to a new industry, which took over the plant of the Maple Leaf Aircraft.

Meaford—Service was extended to a new furniture company whose load will be approximately 75 horsepower and negotiations have been under way for supplying a former sawmill consumer with a load of approximately 70 horsepower.

Plans were made for the construction of a new station to supply the rural area, thereby releasing additional station capacity for the town of Meaford.

Mount Forest—Work was partially completed in connection with changing the transmission voltage from 22,000 to 38,000 volts, involving a corresponding change in the connection of the station transformers.

Neustadt—Plans and estimates for improvements to the distribution system were made and for the supply of 10 horsepower to a new food processing industry.

Orangeville—Estimates were prepared on the cost of improved street lighting for the main thoroughfares of the municipality.

Work was partially completed in connection with changing the transmission voltage from 22,000 to 38,000 volts, involving a corresponding change in voltage and an increase in the capacity of the station transformers from 750 to 2,000 kva.

Owen Sound—Studies were made to determine the best methods of providing additional substation capacity to take care of rapidly increasing loads.

As a result of these studies, it was recommended that a new substation be constructed on the west side of the town, in the vicinity of Twelfth street and Second avenue west. This station will have an initial capacity of 3,000 kva, with an ultimate capacity of 6,000 kva.

Arrangements are also being made to install, temporarily, 3,000 kva at the main station, making the total installation, at that point, 9,000 kva.

The local Commission is planning to rehabilitate the local distribution system and increase the distribution voltage from 2,300 to 4,000 volts. The temporary installation of 3,000 kva at the main substation will provide 4,000 volts in order that power feeders of the local distribution system may be changed over to 4,000 volts as soon as the temporary installation has been completed.

The new station on the west side, when placed in service, will provide 4,000 volts for the portion of the distribution system to be supplied from this station, and the change to 4,000 volts for the balance of the system will be completed as soon as the work can be carried out, after which the temporary installation of 3,000 kva at the main station will be removed from service.

Paisley—Arrangements were made with the municipality to utilize the services of the Commission's rural staff at Walkerton for maintenance and construction work in Paisley as required from time to time.

Ripley—An extension was made to the distribution system to provide three-phase power to a planing mill, a new consumer using approximately 45 horsepower.

Shelburne—Work was partially completed in connection with changing the transmission voltage from 22,000 to 38,000 volts with a corresponding change in voltage and an increase in the capacity of the station transformers from 300 to 600 kva.

Southampton—Arrangements were made to supply additional power to a plywood manufacturing company for high frequency drying of laminated plywoods.

Stayner—Estimates were in course of preparation for the municipality in connection with changing the street lighting from series to multiple.

Walkerton—Arrangements were made with the municipality whereby the services of the rural staff of the Walkerton rural operating area would be made available for maintenance and construction work on the local distribution system as required from time to time.

Wiarton—Plans were made for the construction of a new station to supply the rural area, thereby releasing additional station capacity for the town of Wiarton.

Eastern Ontario Division

Almonte—A 1,000-kva transformer station was installed in Almonte to augment the supply of power from the local generating plant and at the request of the municipality the Commission designed and installed a substation to provide additional distribution feeders.

Bobcaygeon—At the request of the municipality estimates were prepared for a supply of 100 horsepower to supplement the power from the local generating plant.

Braeside—The distribution system in this village was acquired by the Commission in the purchase of the assets of the M. J. O'Brien Company in 1930, since which date the Commission has owned the utility serving the citizens within the municipality. On January 1, 1945, the corporation purchased the distribution system from the Commission and entered into a cost contract, on which basis they have since been a Hydro municipality of the Southern Ontario system. The Commission at the request of the municipality is continuing the operation of the utility on its behalf.

Havelock—At the request of the municipality the Commission's rural staff, which operates the system on behalf of the municipality, rebuilt and improved a considerable portion of the distribution system.

Lindsay—Plans were prepared for improving and extending the underground street lighting system. Consideration was also given to improving the present overhead distribution system.

Oshawa—Estimates are in preparation for the construction of a new substation of 6,000 kva capacity in the north end of the city to increase the substation capacity and replace the old No. 2 station.

Negotiations are proceeding regarding the sale to Oshawa of No. 1 substation at present owned by the Commission.

Pembroke—The municipality of Pembroke requested advice from this Commission in connection with the renewal of the franchise of the Pembroke Electric Light Company, Limited. Engineers made a study of the generating station and distribution system and submitted a report to the town.

Picton—Estimates have been prepared on behalf of the Picton Public Utilities Commission covering the installation of a new 2,000 kva municipal station in the central part of the town.

THUNDER BAY SYSTEM

The Thunder Bay system is operated on a cost-contract basis similar to the Southern Ontario system and the area served by this system is the only area in Northern Ontario receiving power supply under such conditions.

The co-operative municipalities include the cities of Port Arthur and Fort William, a voted area in Nipigon township and the various townships included in the Thunder Bay rural operating area.

Power is also supplied to seven gold mines and two mining townsites in the Longlac and Beardmore mining districts east of lake Nipigon, utilizing approximately 6,070 horsepower; to four pulp and paper companies, utilizing approximately 53,000 horsepower; and to the Rainy River district of the Northern Ontario Properties, utilizing approximately 18,300 horsepower, all of which are served at fixed rates as system customers.

In addition to meeting the requirements of the municipal utilities, the pulp and paper industry and the mines, power supply is also utilized for handling the greater portion of Canada's western grain crop through terminal elevators at Port Arthur and Fort William, at which the various grains are cleaned, graded, stored and transhipped from rail to water transportation systems for delivery to eastern and European markets.

The average load sold by the Thunder Bay system in 1945 was 120,010 horsepower representing an increase of three per cent over the previous year.

The city of Port Arthur utilized during the year an average load of 24,311 horsepower, an increase of seven per cent over the previous year and the city of Fort William established an average load of 16,684 horsepower, also an increase over the previous year of seven per cent. The load increase in Nipigon village was nine per cent and in the rural operating area eighteen per cent over the previous year.

Gold mining operations in the Beardmore and Longlac areas, which were curtailed during the war by lack of labour, and which utilized some 5,600 horsepower less during 1945 than in 1940 are expected to expand and regain prewar demands. A great expansion has already taken place in the pulp and paper industry and negotiations have been carried on with several new companies which intend to establish mills at points within the Thunder Bay system area.

Engineering Assistance to Municipalities

Engineering advice and assistance was given during the year to the local Commissions of Port Arthur and Fort William, also to Nipigon village, covering the operation and maintenance of the local distribution systems.

NORTHERN ONTARIO PROPERTIES

Northern Ontario is sparsely settled and the individual centres of population are scattered and largely dependent upon mining activities. For this reason and partly because of the hazards of mining operations the publicly-owned Hydro properties of northern Ontario are held by the Commission in trust for the Province and operated upon the financial responsibility of the Ontario government.

Hydro's purpose in northern Ontario is to encourage the mining industry and facilitate the development of new properties by the establishment of ample supplies of electric power at a stabilized low cost.

The Northern Ontario Properties comprise eighteen generating stations with extensive transmission and distribution systems, and serve seven districts as follows: The Abitibi district with an average load sold in 1945 of 135,858 horsepower; the Timiskaming district with an average load of 44,174 horsepower; the Sudbury district with an average load of 23,393 horsepower; the Nipissing district with an average load of 6,078 horsepower; the Patricia district with an average load of 9,084 horsepower and the Rainy River district with an average load sold in 1945 of 18,812 horsepower.

In addition there is associated with the Northern Ontario Properties the rural operating area of Manitoulin Island. To service this area the Commission purchases power from a privately-owned local development. The average load sold in 1945 was 604 horsepower.

Service in northern Ontario involves delivery of power to thirty municipalities and townsites, four rural operating areas, forty-two gold mines, three nickel mines, one iron mine and seven silver and cobalt mines. The total average load sold in the seven districts served by the Northern Ontario Properties in 1945 was 238,000 horsepower, an increase of approximately 20 per cent. This increase was due to the inclusion of the new Timiskaming district served by eight generating plants recently purchased by the Commission from the Northern Ontario Power Company.

Rate Reductions

On January 1, 1945, the Commission placed in force rate reductions to all gold mines served by the Northern Ontario Properties reducing the rate for the first 5,000 horsepower from \$32.50 per horsepower per annum to \$27.50 per horsepower per annum. These reductions in power cost greatly benefited properties mining low grade ore and made it possible for the older operating mines to clear up their low grade ore bodies.

About the end of 1945 following the cessation of hostilities, labour began to be available for mining operations and the expansion in gold mining operations made it necessary for the Commission to plan for increased power development.

There has also been a substantial demand for increased service in the rural operating areas of northern Ontario. Shortage of materials has, however, handicapped the work of rural extensions in northern Ontario as elsewhere.

SECTION IV

RURAL ELECTRICAL SERVICE

IN ONTARIO

IN ONTARIO a large part of the population is engaged in mixed farming or lives in villages or hamlets closely associated with rural activities. Intensive efforts have been made by the Commission to spread the benefits of electrical service throughout rural Ontario and to encourage and assist rural dwellers to make the maximum use of electricity. Low-cost Hydro service fully utilized can bring to farm and village homes the conveniences for modern living enjoyed in urban centres.

As announced in the Annual Report for 1944, the Commission on January 1, 1944 put into operation a comprehensive revision of its rural service which is, without doubt, the greatest step forward since the formation of rural power districts (now called rural operating areas) in 1920, and the subsequent grants-in-aid inaugurated by the Province in 1921, and extended in 1924, in connection with its well established policy of assistance to agriculture.

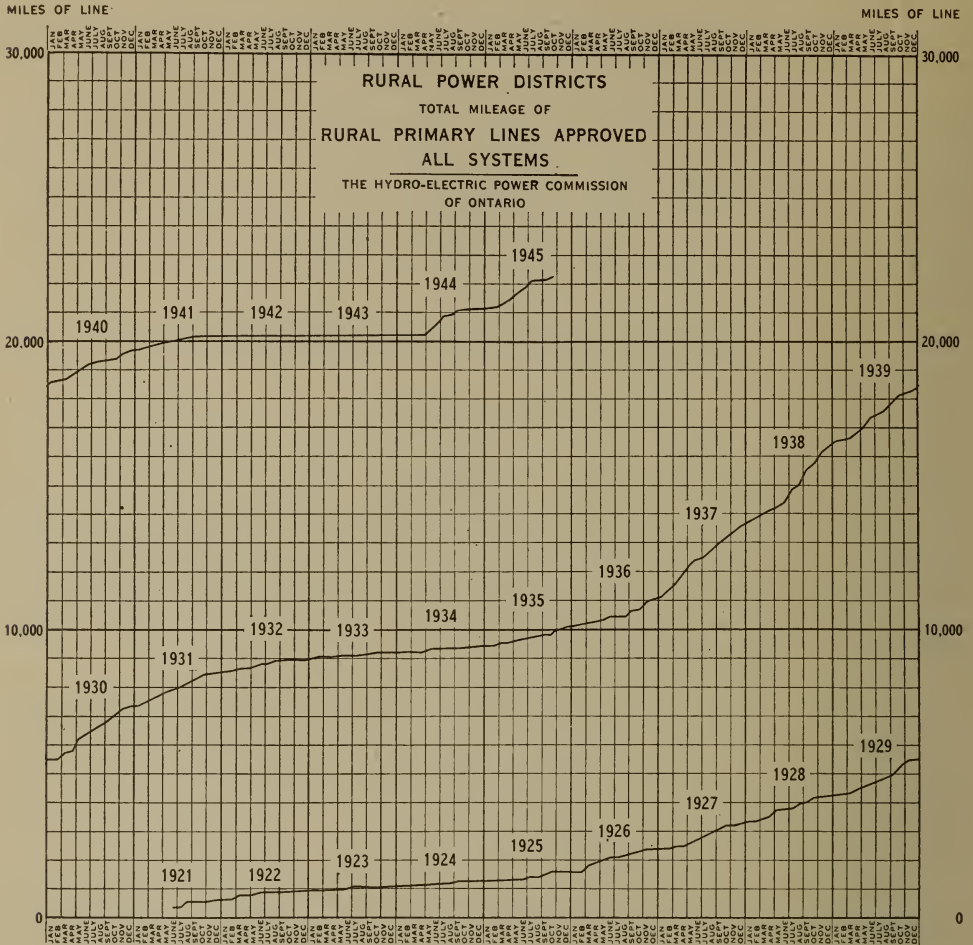
The chief feature of the new set-up for rural service is the establishment for rural operating areas of a uniform rate structure with a common rate applicable to each class of service. Thus, no matter where rural service is given in Ontario by the Hydro the rural consumer* for the same class of service with the same consumption of electricity will pay the same amount on his quarterly bill.

Although, for convenience of administration, the local rural operating areas will be retained as administrative units, the whole rural service is amalgamated into one rural power division of Hydro service, with a pooling of all revenues and expenses. This rural amalgamation and unification of rates is made possible by the financial assistance given by the Province as part of its aid to agriculture. The extent and effect of the Province's financial assistance with respect to the distribution of power in rural operating areas should, therefore, be clearly understood.

Provincial Assistance

The government grant-in-aid of 50 per cent of the capital cost of lines and equipment for the supply of power, relates solely to the initial capital investment for distribution facilities in rural operating areas.

* Rural consumer does not include industrial power consumers served by the facilities of rural operating areas.



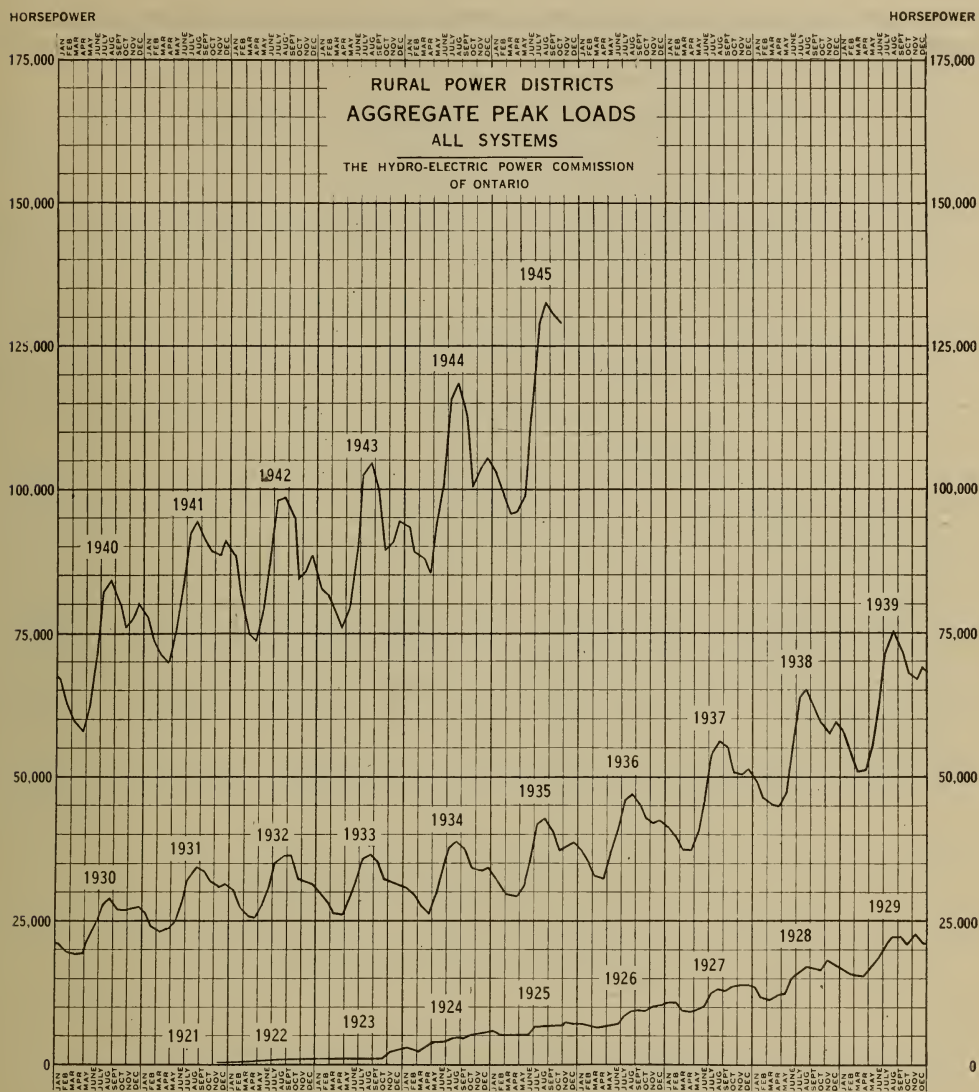
Having made this grant-in-aid the government further participates in the operation of the province-wide Hydro rural service in that it guarantees the Commission against loss due to the fixing of a maximum service charge or its reduction or removal.*

The new set-up is a means of apportioning the benefits from provincial assistance where they will do most good: namely, to the farmer in sparsely settled and less fertile farming areas where, because of these conditions, electrical service is necessarily more costly to provide.

Status of Rural Service in 1945

In 1945 rural service in Ontario was given through 121 operating administrative units which, for convenience, will continue to be referred to as rural operating areas. Power was delivered to approximately 159,608 rural consumers, comprising farms and dwellings in various groups. The consumers are situated in 435 organized townships; 27 unorganized townships and 121

* The Rural Power District Service Charge Amendment Act, 1944.



police villages, villages and small towns and are served over a network of rural primary lines which aggregate 22,309 miles. In addition to the 462 townships served by rural operating areas, 10 townships are served jointly by rural operating areas and voted areas.

The restrictions in the use of materials which enter into rural line construction existing during 1944, were cancelled on June 1, 1945. This enabled the Commission to proceed with many extensions to the extent that both material and labour became available.

During the past year the mileage of rural-line extensions, approved for construction in rural operating areas in Ontario, was 1,279. The net increase in the number of consumers after allowance for cancellation was 13,924.

Rural lines serving rural consumers were purchased from the Caledon Electric Co. during the year and are included in the above figures. See tables and footnote on this page.

The average aggregate peak load* supplied to all rural Hydro consumers, including war industries in rural areas in the Province, amounted to 111,255 horsepower, an increase of 12.9 per cent over 1944.

* Average aggregate peak load is the summation of the twelve monthly peak loads for each and all rural operating areas divided by twelve.

RURAL LINE EXTENSIONS APPROVED BY THE COMMISSION DURING THE YEAR 1945

System	Miles of primary line	Net increase in number of consumers			Power supplied in October 1945	Capital approved for extensions	
		Farm	Non-farm	Total		Total	Provincial grant-in-aid
					h.p.	\$	\$
SOUTHERN ONTARIO							
Niagara division....	488.55	3,584	3,347	6,931	89,695	1,915,514	957,757
Georgian Bay div....	382.55	1,303	1,948	3,251	12,072	962,004	478,457
Eastern Ontario div.	384.61	1,788	1,570	3,358	22,821	1,325,892	662,946
Southern Ont. totals..	1,255.71	6,675	6,865	13,540	124,588	4,203,410	2,099,160
Thunder Bay.....	6.55	20	61	81	916	29,614	14,807
Northern Ontario Properties.....	17.10	67	236	303	2,841	74,788	37,394
Totals.....	1,279.36	6,762	7,162	13,924	128,345	4,307,812	2,151,361

SUMMARY OF RURAL LINE EXTENSIONS

Approved by the Commission from June 1, 1921 to October 31, 1945

Constructed or Under Construction

System	Miles of primary line	Number of consumers			Capital approved for extensions	
		Farm	Non-farm	Total	Total	Provincial grant-in-aid
					\$ c.	\$ c.
SOUTHERN ONTARIO						
Niagara division....	12,725.40	45,431	51,531	96,962	32,761,428.89	16,357,434.44
Georgian Bay div....	3,586.67	7,607	15,773	23,380	8,096,261.95	3,955,467.49
Eastern Ontario div.	5,327.87	14,103	19,467	33,570	13,330,029.31	6,665,014.65
Southern Ont. totals..	21,639.94	67,141	86,771	153,912	54,187,720.15	26,977,916.58
Thunder Bay.....	301.53	635	968	1,603	680,485.00	340,242.50
Northern Ontario Properties.....	368.02	573	3,520	4,093	1,190,278.00	595,139.00
Totals.....	22,309.49*	68,349	91,259	159,608*	56,058,483.15	27,913,298.08

* These totals include 740.01 miles of primary line under construction on October 31, 1945 and service to 3,048 new consumers, not completed until after the end of the fiscal year.

Rural Loans

Under The Rural Power District Loans Act, 1930, authority was given to The Hydro-Electric Power Commission of Ontario to finance the installation of wiring and the purchase of specified electrical equipment by rural farm consumers.

Owing to the necessity to conserve funds for war purposes this financing was discontinued on October 31, 1940. Up to that time 1,776 loans had been granted, amounting to \$360,852. Details are as given in previous Annual Reports.

To October 31, 1945, 1,766 loans had been repaid in full, either through the maturing of the loan or by being paid in advance by the borrower.

NEW UNIFORM RURAL RATE STRUCTURE

A new uniform rural rate structure, for the sale of energy, was placed in effect on January 1, 1944, for all rural Hydro service throughout the Province, and replaces the numerous rural rate schedules previously in effect.

The effect of the rural-rate decrease made in 1944 was so satisfactory that the Commission considered it advisable to reduce the first block rate of 4 cents per kilowatt-hour to 3.5 cents per kilowatt-hour to all rural consumers. This reduction came into effect on May 1, 1945.

The new energy rates consist, essentially, of a three-step energy charge, as follows:

1. A first block or number of kilowatt-hours of energy consumption in the billing period, charged for at 3.5 cents gross per kilowatt-hour;*
2. A second block or number of kilowatt-hours of energy consumption in the billing period, charged for at 1.6 cents gross per kilowatt-hour; and
3. All remaining kilowatt-hours of energy consumption in the billing period, charged for at 0.75 cents gross per kilowatt-hour.

In addition, the service charge in use prior to January 1, 1944, has been eliminated in the case of Farm and Commercial service, reduced by 50 per cent of Hamlet service and changed to an annual fixed charge in the case of Summer service.

Under the new rate schedules, rural service is now available in four main classes. All rural contracts for service carry a symbol consisting of a letter indicating the classification of the contract, followed by a number which indicates the demand rating or permissible demand in kilowatts contracted for. These classes and symbols are: Farm service, F; Hamlet service, H; Commercial service, C, and Summer service, S.

* Reduced from 4 to 3½ cents gross on May 1, 1945

The following is the rate schedule for each main class of service with minimum demand rating:

RATE SCHEDULES FOR RURAL SERVICE—MINIMUM DEMAND

Class and minimum rating	Demand	Service charge per month	Energy consumption per month			Minimum bill (gross) per month
			at 3.5 cents* per kw-hr	at 1.6 cents per kw-hr	at 0.75 cents per kw-hr	
F3	kw	cents	kw-hrs	kw-hrs	kw-hrs	\$ c.
H2 (2 wire)	3	Nil	60	180	Balance	2.25
H3 (3 wire)	2	56	40	80	Balance	1.67
H3 (3 wire)	3	56	40	180	Balance	2.25
C2	2	Nil	60	120	Balance	1.50
		Annual fixed charge	Energy consumption per year			Minimum bill per year
			at 3.5 cents* per kw-hr	at 1.6 cents per kw-hr	at 0.75 cents per kw-hr	
S2	2	\$ c. 11.11	kw-hrs 150	kw-hrs 450	kw-hrs Balance	\$ c. Annual fixed charge
Prompt payment discount—10 per cent						

* Reduced from 4 to 3½ cents gross on May 1, 1945.

For higher demands, above the minimum rating, add to the minimum rating set out above, for each additional kilowatt, the following:

RATE SCHEDULES FOR RURAL SERVICE

ADDITIONAL CHARGES AND CONSUMPTIONS FOR EXTRA DEMAND

Class	Additional service charge per month per kw	Energy consumption per month per kw.			Addition to minimum bill (gross) per month per kw
		at 3.5 cents per kw-hr	at 1.6 cents per kw-hr	at 0.75 cents per kw-hr	
F4, F5, etc.	Nil	kw-hrs 20	kw-hrs 60	kw-hrs Balance	\$ c. 0.75
H4, H5, etc.	No increase	20	60	Balance	0.75
C3, C4, etc.	Nil	30	60	Balance	0.75
	Additional annual fixed charge	Energy consumption per year per kw.			Minimum bill per year
		at 3.5 cents per kw-hr	at 1.6 cents per kw-hr	at 0.75 cents per kw-hr	
S3, S4, etc.	\$ c. 3.33*	kw-hrs 75	kw-hrs 225	kw-hrs Balance	\$ c. Annual fixed charge
Prompt payment discount—10 per cent					

* Yearly minimum fixed charge for all summer classes above S2—\$15.56 (gross), or \$3.33 (gross), per kw of demand, whichever is the greater.

DESCRIPTION OF MAIN CLASSES OF HYDRO RURAL SERVICE

Beginning January 1, 1944 electrical service is supplied in rural operating areas under four main classes described below. When the class of service which will meet the requirements of the individual consumer has been chosen, contracts are executed between the consumer and the corporation of the township concerned.

Farm Service

Farm service shall be considered to be service to property having lands used for the production of food stuff or industrial crops for sale and from which a substantial livelihood is obtained. It shall include electrical service to all farm buildings and equipment situated on the farm and used for farm purposes, including buildings and equipment required for processing the products of the customer's farm.

Service under a single farm contract may be supplied to all dwellings or separate domestic establishments situated on the farm property and occupied by persons who are regularly engaged in the operation of the farm.

Additional dwellings or domestic establishments situated on a farm property and occupied by persons not regularly engaged in the operation of the farm, if served, shall be classed as hamlet contracts and rated accordingly. Small properties of five acres and less will be classed as hamlet services except under special circumstances which would justify a farm classification.

The minimum demand of a farm service for billing purposes shall be taken as three kilowatts.

Hamlet Service

Hamlet service shall be considered to be service to a domestic establishment or residence in a rural or in a small suburban community served as part of a rural operating area. This class shall include isolated rural residences.

The demand rating of a two-wire hamlet service will be taken as two kilowatts and will be limited by a 20-ampere breaker or a 30-ampere fuse. Where the hamlet service exceeds two kilowatts, three-wire service shall be supplied and the minimum demand for a three-wire service shall be three kilowatts.

Commercial Service

Commercial service shall be considered to be service to community or business premises including schools, churches, public halls, hospitals, hotels, public boarding houses, tourist camps, business and professional offices, stores, repair shops, garages, gasoline stations, blacksmith and woodworking shops, small manufacturing and processing plants, chick hatcheries, sign and display lighting and all other premises used for commercial or community purposes.

Single-phase power only will be supplied under a commercial contract. Where three-phase power is required, the service will be classed as an "Industrial power service."

The minimum demand rating of a commercial contract shall be two kilowatts for a two-wire service and three kilowatts for a three-wire service.

Summer Service

Summer service is applicable to properties where service is used normally only during the summer months and which are not established as the consumer's permanent residence. This service is not limited to cottages, but may

include summer hotels, tourist camps, refreshment booths and other commercial premises.

The demand rating of a two-wire summer service will be taken as two kilowatts and will be limited to a maximum of a 20-ampere breaker or a 30-ampere fuse. Where the summer service exceeds two kilowatts, three-wire service shall be supplied and the minimum demand for a three-wire service shall be three kilowatts.

STANDARD NUMBER OF CONSUMERS PER MILE

The number of consumers required per mile of line extension varies according to classification and rating of all applicants. For this purpose a unit rating is allocated to each consumer, according to the classification and rating.

The following table shows the number of units and contracts per mile for each class of service:—

Classification of consumer	Rating in kilowatts	Units per contract	Contracts per mile
Single Services			
Farm.....	3 and over	5	2
Hamlet.....	2	3	3.33
Hamlet.....	3	3	3.33
Hamlet.....	4	3	3.33
Hamlet.....	5 and over	4	2.5
Commercial.....	2	3	3.33
Commercial.....	3	3	3.33
Commercial.....	4	3	3.33
Commercial.....	5 and over	4	2.5
Summer.....	2	2	5
Summer.....	3	2	5
Summer.....	4	2	5
Summer.....	5 and over	3	3.33
Multiple Services			
Farm.....	3 and over	5	2
Hamlet.....	4	3	3.33
Hamlet.....	5 and over	4	2.5
Commercial.....	4	3	3.33
Commercial.....	5 and over	4	2.5
Summer.....	4	2	5
Summer.....	5 and over	3	3.33
Combination Services			
Total kilowatts of:			
Combined Farm with Hamlet or Commercial.....	4 and over	5	2
Combined Hamlet with Commercial.....	up to 4	3	3.33
Combined Hamlet with Commercial.....	5 and over	4	2.5

RATE SCHEDULES FOR INDUSTRIAL POWER SERVICE SERVED THROUGH FACILITIES OF RURAL OPERATING AREAS

A study was made during the year relating to rates charged consumers for industrial power service. Rates will be reduced on January 1, 1946, in all areas where it is possible to do so. The schedule of rates to be placed in effect on January 1, 1946, is given below.

Industrial Power Service

Power service shall cover three-phase service to power users such as creameries, cheese factories, chopping mills, industries and special loads which cannot be supplied as Commercial single-phase service.

**INDUSTRIAL POWER SERVICE—RATES TO CONSUMERS
SERVED THROUGH FACILITIES OF RURAL OPERATING AREAS**

Control office location	Rural operating areas	Basis of rate, 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs per month per kw-hr	Second 50 hrs per month per kw-hr	All additional per kw-hr	Local discount	Prompt payment discount
Southern Ontario System—Niagara Division								
Aylmer.....	Aylmer.....	\$ c. 27.00	\$ c. 1.00	cents 2.3	cents 1.5	cents 0.33	%	% 10
Beamsville....	Beamsville....	24.00	1.00	2.3	1.5	0.33	10	10
Blenheim.....	Blenheim.....	28.00	1.00	2.5	1.6	0.33	.....	10
Bond Lake.....	Bond Lake.....	26.00	1.00	2.2	1.4	0.33	.....	10
Bothwell.....	Bothwell.....	30.00	1.00	2.8	1.8	0.33	.....	10
Brampton.....	Brampton.....	26.00	1.00	2.2	1.4	0.33	.....	10
	Streetsville....	26.00	1.00	2.2	1.4	0.33	.....	10
Brant.....	Brant.....	26.00	1.00	2.2	1.4	0.33	.....	10
	Burford.....	26.00	1.00	2.2	1.4	0.33	.....	10
Chatham.....	Chatham.....	25.00	1.00	2.0	1.3	0.33	.....	10
Delaware.....	Delaware.....	26.00	1.00	2.2	1.4	0.33	.....	10
	Strathroy....	26.00	1.00	2.2	1.4	0.33	.....	10
Dorchester....	Dorchester....	26.00	1.00	2.2	1.4	0.33	.....	10
Dundas.....	Dundas.....	25.00	1.00	2.0	1.3	0.33	.....	10
	Lynden.....	25.00	1.00	2.0	1.3	0.33	.....	10
Dutton.....	Dutton.....	30.00	1.00	2.8	1.8	0.33	.....	10
Elmira.....	Elmira.....	26.00	1.00	2.2	1.4	0.33	.....	10
	St. Jacobs....	26.00	1.00	2.2	1.4	0.33	.....	10
Essex.....	Essex.....	27.00	1.00	2.3	1.5	0.33	.....	10
Exeter.....	Exeter.....	30.00	1.00	2.8	1.8	0.33	.....	10
Forest.....	Forest.....	31.00	1.00	2.9	1.9	0.33	.....	10
Goderich.....	Goderich.....	31.00	1.00	2.9	1.9	0.33	.....	10
	Walton.....	31.00	1.00	2.9	1.9	0.33	.....	10
Guelph.....	Guelph.....	24.00	1.00	2.3	1.5	0.33	10	10
	Milton.....	24.00	1.00	2.3	1.5	0.33	10	10
Haldimand...	Haldimand...	33.00	1.00	3.2	2.1	0.33	.....	10
	Dunnville....	33.00	1.00	3.2	2.1	0.33	.....	10
Harrow.....	Harrow.....	28.00	1.00	2.5	1.6	0.33	.....	10
Ingersoll.....	Ingersoll.....	25.00	1.00	2.0	1.3	0.33	.....	10
Keswick.....	Keswick.....	28.00	1.00	2.5	1.6	0.33	.....	10
Kingsville....	Kingsville....	28.00	1.00	2.5	1.6	0.33	.....	10
Listowel.....	Listowel.....	26.00	1.00	2.2	1.4	0.33	.....	10
London.....	London.....	25.00	1.00	2.0	1.3	0.33	.....	10
Lucan.....	Lucan.....	30.00	1.00	2.8	1.8	0.33	.....	10
Markham.....	Markham.....	26.00	1.00	2.2	1.4	0.33	.....	10
Merlin.....	Merlin.....	28.00	1.00	2.5	1.6	0.33	.....	10
Mitchell.....	Mitchell.....	28.00	1.00	2.5	1.6	0.33	.....	10
	St. Marys....	28.00	1.00	2.5	1.6	0.33	.....	10
	Seaforth....	28.00	1.00	2.5	1.6	0.33	.....	10
Niagara.....	Niagara.....	23.00	1.00	2.1	1.4	0.33	10	10
Norwich.....	Norwich.....	26.00	1.00	2.2	1.4	0.33	.....	10
Oil Springs...	Oil Springs...	31.00	1.00	2.9	1.9	0.33	.....	10
Preston.....	Preston.....	26.00	1.00	2.2	1.4	0.33	.....	10
	Baden.....	26.00	1.00	2.2	1.4	0.33	.....	10
	Galt.....	26.00	1.00	2.2	1.4	0.33	.....	10

**INDUSTRIAL POWER SERVICE—RATES TO CONSUMERS
SERVED THROUGH FACILITIES OF RURAL OPERATING AREAS**

Control office location	Rural operating areas	Basis of rate, 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs per month per kw-hr	Second 50 hrs per month per kw-hr	All additional per kw-hr	Local discount	Prompt payment discount
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Niagara Division—Continued

		\$ c.	\$ c.	cents	cents	cents	%	%
Ridgetown....	Ridgetown...	32.00	1.00	3.1	2.0	0.33	10
St. Thomas...	St. Thomas...	27.00	1.00	2.3	1.5	0.33	.....	10
Saltfleet.....	Saltfleet....	22.00	1.00	1.9	1.3	0.33	10	10
	Caledonia...	25.00	1.00	2.0	1.3	0.33	.....	10
Sandwich.....	Sandwich....	25.00	1.00	2.0	1.3	0.33	.....	10
Sarnia.....	Sarnia.....	29.00	1.00	2.6	1.7	0.33	.....	10
	Brigden....	29.00	1.00	2.6	1.7	0.33	.....	10
Simcoe.....	Simcoe.....	28.00	1.00	2.5	1.6	0.33	.....	10
	Walsingham..	28.00	1.00	2.5	1.6	0.33	.....	10
Stratford....	Stratford...	26.00	1.00	2.2	1.4	0.33	.....	10
	Tavistock...	26.00	1.00	2.2	1.4	0.33	.....	10
Tillsonburg..	Tillsonburg..	26.00	1.00	2.2	1.4	0.33	.....	10
Wallaceburg..	Wallaceburg..	27.00	1.00	2.3	1.5	0.33	.....	10
	Dresden....	27.00	1.00	2.3	1.5	0.33	.....	10
Waterdown...	Waterdown...	25.00	1.00	2.0	1.3	0.33	.....	10
Welland.....	Welland.....	20.00	1.00	1.6	1.0	0.33	10	10
	Chippawa...	20.00	1.00	1.6	1.0	0.33	10	10
Woodbridge...	Woodbridge...	27.00	1.00	2.3	1.5	0.33	.....	10
Woodstock...	Woodstock...	25.00	1.00	2.0	1.3	0.33	.....	10

**Southern Ontario System—
Georgian Bay Division**

		\$ c.	\$ c.	cents	cents	cents	%	%
Bala.....	Bala.....	25.00	1.00	2.0	1.3	0.33	.....	10
Barrie.....	Barrie.....	30.00	1.00	2.8	1.8	0.33	.....	10
	Alliston....	30.00	1.00	2.8	1.8	0.33	.....	10
Beaumaris...	Beaumaris...	29.00	1.00	2.6	1.7	0.33	.....	10
	Utterson....	29.00	1.00	2.6	1.7	0.33	.....	10
	Baysville...	29.00	1.00	2.6	1.7	0.33	.....	10
Bruce.....	Bruce.....	30.00	1.00	2.8	1.8	0.33	.....	10
	Holstein....	30.00	1.00	2.8	1.8	0.33	.....	10
Caledon.....	Caledon.....	36.00	1.00	3.7	2.4	0.33	.....	10
Cannington...	Cannington...	31.00	1.00	2.9	1.9	0.33	.....	10
	Beaverton...	31.00	1.00	2.9	1.9	0.33	.....	10
Hawkestone...	Hawkestone...	24.00	1.00	2.3	1.5	0.33	10	10
	Sparrow Lake	24.00	1.00	2.3	1.5	0.33	10	10
	Gravenhurst.	24.00	1.00	2.3	1.5	0.33	10	10
Huntsville...	Huntsville...	28.00	1.00	2.5	1.6	0.33	.....	10
Midland.....	Midland.....	27.00	1.00	2.3	1.5	0.33	.....	10
Owen Sound..	Owen Sound..	32.00	1.00	3.1	2.0	0.33	.....	10
	Tara.....	32.00	1.00	3.1	2.0	0.33	.....	10
Shelburne...	Shelburne...	31.00	1.00	2.9	1.9	0.33	.....	10
Uxbridge.....	Uxbridge.....	32.00	1.00	3.1	2.0	0.33	.....	10
Wasaga Beach	Wasaga Beach	26.00	1.00	2.2	1.4	0.33	.....	10
	Creemore...	26.00	1.00	2.2	1.4	0.33	.....	10
Wroxeter.....	Wroxeter.....	31.00	1.00	2.9	1.9	0.33	.....	10

INDUSTRIAL POWER SERVICE—RATES TO CONSUMERS
SERVED THROUGH FACILITIES OF RURAL OPERATING AREAS

Control office location	Rural operating areas	Basis of rate, 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs per month per kw-hr	Second 50 hrs per month per kw-hr	All additional per kw-hr	Local discount	Prompt payment discount
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**Southern Ontario System—
Eastern Ontario Division**

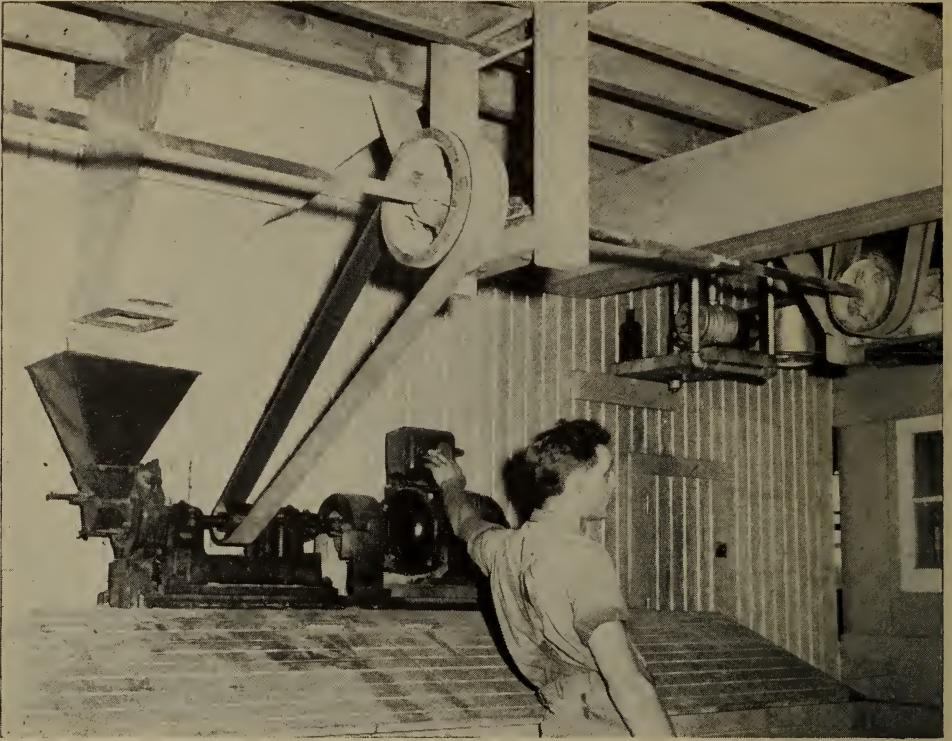
		\$ c.	\$ c.	cents	cents	cents	%	%
Arnprior.....	Arnprior....	25.00	1.00	2.0	1.3	0.33	10
	Renfrew.....	25.00	1.00	2.0	1.3	0.33	.....	10
Belleville.....	Belleville....	24.00	1.00	2.3	1.5	0.33	10	10
Bowmanville....	Bowmanville..	26.00	1.00	2.2	1.4	0.33	.....	10
Brockville.....	Brockville....	25.00	1.00	2.0	1.3	0.33	.....	10
Carleton Place	CarletonPlace	24.00	1.00	2.3	1.5	0.33	10	10
Cobourg.....	Cobourg.....	25.00	1.00	2.0	1.3	0.33	.....	10
Fenelon Falls	Fenelon Falls	28.00	1.00	2.5	1.6	0.33	.....	10
	Minden.....	28.00	1.00	2.5	1.6	0.33	.....	10
	Omeme.....	28.00	1.00	2.5	1.6	0.33	.....	10
Frankford.....	Fankford....	23.00	1.00	2.1	1.4	0.33	10	10
	Brighton....	23.00	1.00	2.1	1.4	0.33	10	10
Kingston.....	Kingston....	25.00	1.00	2.0	1.3	0.33	.....	10
Martintown....	Martintown..	33.00	1.00	3.2	2.1	0.33	.....	10
Millbrook.....	Millbrook....	28.00	1.00	2.5	1.6	0.33	.....	10
Napanee.....	Napanee....	24.00	1.00	2.3	1.5	0.33	10	10
Nepean.....	Nepean.....	22.00	1.00	1.9	1.3	0.33	10	10
Norwood.....	Norwood....	31.00	1.00	2.9	1.9	0.33	.....	10
Oshawa.....	Oshawa.....	25.00	1.00	2.0	1.3	0.33	.....	10
Peterboro.....	Peterboro....	20.00	1.00	1.6	1.0	0.33	10	10
	Lakefield....	25.00	1.00	2.0	1.3	0.33	.....	10
Smiths Falls..	Smiths Falls.	26.00	1.00	2.2	1.4	0.33	.....	10
Sulphide.....	Sulphide....	34.00	1.00	3.4	2.2	0.33	.....	10
	Madoc.....	34.00	1.00	3.4	2.2	0.33	.....	10
	Marmora....	34.00	1.00	3.4	2.2	0.33	.....	10
Wellington....	Wellington...	29.00	1.00	2.6	1.7	0.33	.....	10
Winchester...	Winchester..	26.00	1.00	2.2	1.4	0.33	.....	10

Thunder Bay System

		\$ c.	\$ c.	cents	cents	cents	%	%
Thunder Bay.	Thunder Bay	24.00	1.00	2.3	1.5	0.33	10	10
	Nipigon.....	24.00	1.00	2.3	1.5	0.33	10	10

Northern Ontario Properties

		\$ c.	\$ c.	cents	cents	cents	%	%
Connaught...	Connaught...	40.00	1.00	4.3	2.8	0.33	.....	10
Manitoulin...	Manitoulin..	35.00	1.00	3.5	2.3	0.33	.....	10
North Bay.....	North Bay...	36.00	1.00	3.7	2.4	0.33	.....	10
Sudbury.....	Sudbury.....	35.00	1.00	3.5	2.3	0.33	.....	10



Modern chopper installed in barn on Ontario farm

FARM USES FOR ELECTRICITY

The use made of electrical service by farmers divides itself broadly into applications which provide a higher standard of living in the farm home, and applications which add to the productive capacity of a farm. Some applications, for example, lighting and water pumping, do both.

Farming is a productive industry and the ability of electrical service to provide light, heat and power in a wide range of intensities free from the hazards associated with oil or other fuel and the ease with which electricity may be controlled, permit applications to farm production problems not feasible with any other source of power.

These applications result in savings in labour, increased production, improved quality, prevention of waste, reduced costs and substantial increases in earnings.

To the farm home electricity can bring the same conveniences as are enjoyed by urban residents. It eliminates the drudgery of many household tasks, improves health and comfort and, through the radio, furnishes entertainment, news, discussions of current topics and market reports, all of which bring greater contentment in the rural way of life.

In building up his electrical equipment to receive the maximum benefit from Hydro rural service, the farmer should keep a nice balance between

appliances for use in the home and appliances which will add to the productive capacity of his farm. It is especially desirable that following the installation of lighting service in the home and outbuildings his early concern should be to purchase equipment which will result in cash returns.

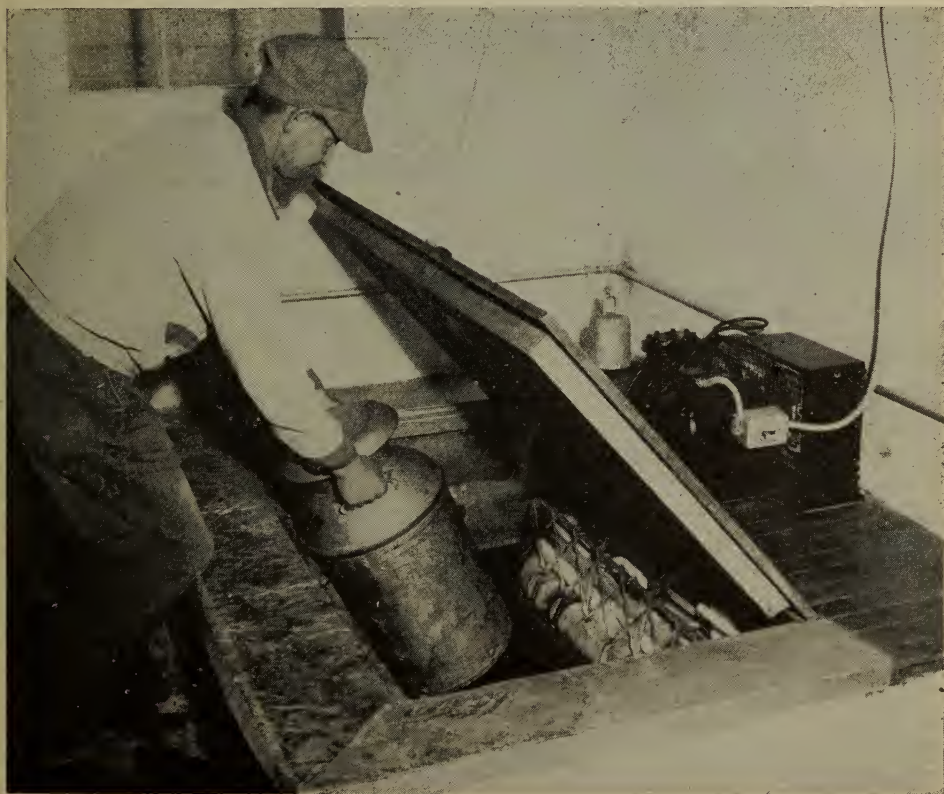
Lighting Service

Electric lighting is safe, convenient and reduces the fire hazard to a minimum. It adds comfort and attractiveness to the farm home. In the barn and other buildings it saves time and prevents accidents while doing chores.

In productive operations it is used in the poultry laying house to supplement daylight during the winter months, thus increasing egg production during a period when prices are highest.

In floriculture lighting may be used to promote or retard the flowering of certain flowering plants in order to meet the demand of special occasions.

Special applications of lighting include insect traps, infra-red lamps for brooders and ultra-violet lamps to improve the health of poultry and other stock.



Milk cooling by electric refrigeration now being used by progressive Ontario farmers to their economic advantage



Electric clippers contribute to the comfort and appearance of animals and in the dairy they are one of the many sanitary devices which make easier the production of high quality milk

Heating Service

The safety and ease of control of electricity as a source of heating has found many applications. In the home it makes possible many of the familiar appliances, such as irons, toasters, hot plates, electric ranges and water heaters, all of which add to the comfort and convenience of the home. The ease of automatic control of electric heat has found application in incubators and poultry brooders, where accurate control of temperature is necessary.

Water heaters and dairy sterilizing equipment assist in maintaining a high quality of milk production. Small capacity heaters are used to maintain drinking water at suitable temperature for poultry, with resultant increases in egg production during the winter months. It also finds application in brooders for pigs and lambs, preventing loss of these animals during cold weather and affecting very substantial savings and increased earnings.

In horticulture electric soil heating is used for the early germination and propagation of seeds and plants and their protection against frost.

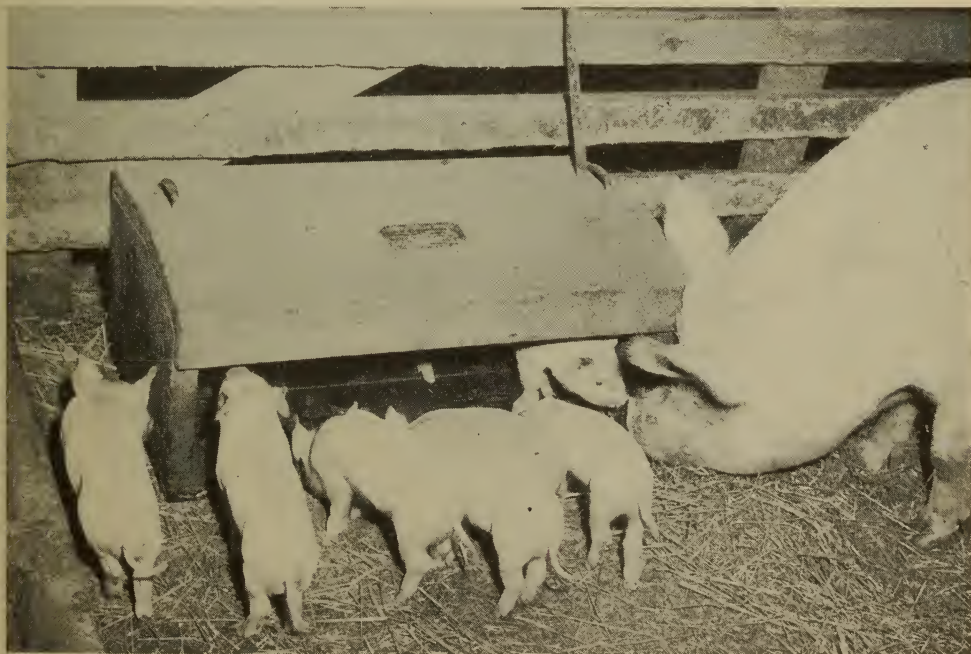
Power for Electric Motors

Electric motors find many uses in replacing manual effort. A quarter-horsepower motor can operate any machine that can be operated by hand, thus effecting savings in time and effort.

In the home motors make possible washing machines, ironing machines, vacuum cleaners, fans, furnace blowers, water pumps and refrigerators and the new cold storage home locker for the preservation and storage of perishable foods in quantity. Thus, motors contribute towards making the farm home equal in comfort and convenience to the urban home.

In farming operations electric motors are used for grinding grain and the operation of feed mixers, effecting substantial cash savings. They are also used for pumping water for stock and the operation of milking machines, cream separators and milk coolers. These result in very substantial savings in labor, and increases in production, and permit the handling of larger herds, effecting increases in farm earnings.

Portable utility motors of various sizes find many applications, such as wood cutting, hoisting hay, elevating grain, seed cleaning and, in the workshop, motor-driven grinders and other equipment provide facilities for maintaining farm equipment in repair and facilitate the construction of various pieces of useful equipment in connection with farming operations.



An electric pig brooder keeps young pigs warm and protects them from a rolling sow.

Estimates of the major electrical appliances used in rural operating areas are set out in the following table:

**ELECTRICAL APPLIANCES IN USE AMONG FARM CONSUMERS IN
RURAL OPERATING AREAS**

Data for all systems for the year 1942

On the farm			In the farm home		
Item	Number of appliances	Percentage of saturation	Item	Number of appliances	Percentage of saturation
Motor.....	11,240	18.0	Range.....	11,688	18.7
Pump.....	10,186	16.3	Hot Plates.....	14,921	23.9
Grain grinders.....	4,293	6.9	Washers.....	40,014	64.2
Milking Machine.....	3,920	6.3	Vacuum cleaners.....	10,651	17.1
Milk cooler.....	1,517	2.4	Water heaters, flat rate	2,739	4.4
Cream separator.....	5,302	8.5	Water heaters, metered	1,481	2.4
Churn.....	656	1.1	Grates.....	539	0.9
Incubator.....	828	1.3	Portable air heaters.....	4,970	7.9
Brooder.....	1,550	2.5	Ironers.....	938	1.5
Hot Bed.....	56	0.1	Hand Irons.....	50,314	80.7
Water heater, flat rate.	181	0.3	Refrigerators.....	10,913	17.5
Water heater metered..	113	0.2	Toasters.....	35,465	56.9
Miscellaneous.....	861	1.4	Radios.....	49,747	79.8
			Furnace blowers.....	1,393	2.2
			Pumps.....	10,480	16.8
			Miscellaneous.....	2,276	3.6

The following table makes comparison between rural and urban use:—

**ELECTRICAL APPLIANCES IN USE IN HOMES OF URBAN AND RURAL
CONSUMERS—1942**

Electrical appliances	Rural operating area				Urban	
	Hamlet		Farm			
	Number of appliances	Percentage of saturation	Number of appliances	Percentage of saturation	Number of appliances	Percentage of saturation
Ranges.....	7,243	13.4	11,688	18.7	166,498	29.7
Hot Plate.....	13,524	25.0	14,921	23.9	91,260	16.3
Washer.....	28,270	52.2	40,014	64.2	359,428	64.0
Vacuum cleaner.....	9,730	18.0	10,651	17.1	270,067	48.1
Water heater, flat rate..	2,408	4.4	2,739	4.4	75,241	13.4
Water heater, metered..	1,303	2.4	1,481	2.4	75,321	13.4
Grate.....	420	0.8	539	0.9	50,619	9.0
Air heater.....	3,992	7.4	4,970	7.9	62,383	11.1
Ironers.....	914	1.7	938	1.5	19,685	3.5
Irons.....	41,751	77.0	50,314	80.7	561,912	100.1
Refrigerators.....	10,184	18.8	10,913	17.5	218,922	39.0
Toasters.....	29,240	53.9	35,465	56.9	439,971	78.4
Radio.....	42,033	77.5	49,747	79.8	577,309	102.8
Furnace blower.....	1,629	2.3	1,393	2.2	62,338	11.1
Grills.....					126,650	22.6
Pump.....	7,112	13.1	10,480	16.8		
Air-conditioner.....					10,202	1.8
Miscellaneous.....	2,532	4.7	2,276	3.6		



Electric brooders have removed many uncertainties from turkey raising, reducing the average mortality

Average Cost to Rural Consumers Decreasing

The remarkable benefits obtained by rural communities in regard to the amount charged to them during the period 1928 to 1944 are indicated in the following tables. The classification of rural consumers, and the rates charged were changed for the year 1944. The result of the application of rates in force, from time to time during the period 1928 to 1943, are not comparable to the application of 1944 classification and rates. The 1944 results are therefore given separately followed by the results in earlier years.

RURAL SERVICE STATISTICS—1944

Service	Annual revenue	Kilowatt-hours consumed	Number of consumers billed*	Average revenue per kw-hr.	Average monthly bill†	Average monthly consumption—kw-hr.†
	\$ c.			cents	\$ c.	
Farm service.....	2,396,508.94	113,706,660	59,639	2.11	3.53	167
Hamlet service.....	1,937,102.28	82,106,734	56,130	2.36	2.95	125
Commercial service....	341,646.50	15,010,213	8,262	2.28	3.51	154
Summer service.....	435,622.43	11,859,662	19,291	3.67	1.93	53

*It may be observed that the number of consumers reported here does not agree with those shown in other sections of the Annual Report of the Commission. This is due to the fact that the figures given here represent consumers actually billed, but do not include power or special contracts, whereas elsewhere in the Report the tables show the number of contracts executed to the end of the fiscal year. In many cases service is not given until the following year.

† Estimated—due to reclassification during the year.

HAMLET AND HOUSE LIGHTING SERVICE

Classified as 1B, 1C and 2A from 1928 to 1943

	Annual revenue	Kilowatt- hours consumed	Number of consumers billed*	Average revenue per kw-hr.	Average monthly bill	Average monthly consump- tion— kw-hr.
	\$ c.			cents	\$ c.	
1928	530,407.00	10,702,031	17,585	4.95	2.51	50.7
1929	663,311.00	14,424,770	21,219	4.60	2.85	62.0
1930	757,558.00	17,815,987	25,013	4.25	2.73	64.2
1931	974,224.17	22,127,474	31,176	4.40	2.88	65.6
1932	1,075,081.03	24,654,386	33,368	4.36	2.76	63.3
1933	1,133,368.70	25,410,470	35,941	4.46	2.70	60.1
1934	1,149,876.67	27,768,460	37,466	4.14	2.61	63.0
1935	1,171,873.28	30,802,290	39,751	3.80	2.53	66.5
1936	1,239,010.83	35,666,241	43,014	3.47	2.49	71.8
1937	1,331,919.46	40,935,040	46,785	3.25	2.47	76.0
1938	1,439,681.39	47,612,820	52,514	3.02	2.42	79.9
1939	1,649,496.29	54,787,544	58,328	3.01	2.36	78.3
1940	1,812,550.53	60,839,240	62,973	2.98	2.40	80.5
1941	1,995,468.46	67,587,082	67,939	2.95	2.45	82.9
1942	2,118,911.57	72,613,472	69,766	2.92	2.56	87.9
1943	2,170,221.41	73,980,871	70,919	2.93	2.57	87.6

FARM SERVICE

Classified as 2B, 3, 4, 5, 6A, 6B, 7A and 7B

from 1928 to 1943

Year	Annual revenue	Kilowatt- hours consumed	Number of consumers billed*	Average revenue per kw-hr.	Average monthly bill	Average monthly consump- tion— kw-hr.
	\$ c.			cents	\$ c.	
1928	569,007.00	10,969,828	9,309	5.18	4.97	96
1929	777,736.00	16,022,842	12,605	4.85	5.85	121
1930	863,805.00	20,507,063	16,011	4.21	5.03	119
1931	1,128,554.28	25,716,141	20,796	4.39	5.11	116
1932	1,255,482.13	28,675,400	22,432	4.38	4.84	110
1933	1,309,122.96	30,062,194	23,283	4.35	4.75	109
1934	1,319,922.69	33,312,314	23,882	3.96	4.66	118
1935	1,343,222.39	37,667,453	25,357	3.57	4.55	128
1936	1,385,784.39	45,447,669	28,198	3.05	4.31	141
1937	1,366,484.50	54,858,240	35,508	2.49†	3.57	144†
1938	1,711,788.81	67,886,882	44,565	2.52†	3.56	141†
1939	2,090,259.14	81,613,087	53,240	2.56†	3.56	139†
1940	2,405,092.40	93,859,719	58,728	2.56†	3.41	133†
1941	2,690,250.37	107,061,610	63,304	2.51	3.54	141
1942	2,870,300.31	116,448,363	63,748	2.46	3.75	152
1943	2,934,011.31	121,428,714	64,292	2.42	3.81	158

* See footnote to table on previous page.

† In the period 1937 to 1940, there was an increase in the statistical average revenue per kilowatt-hour and a decrease in the statistical average monthly consumption per consumer. Actually there was a great increase in the use of electricity by nearly all individual Hydro consumers and a corresponding decrease to each consumer in the average cost per kilowatt-hour. But due to the tremendous growth at this time in new consumers, who for the first few years are not equipped to use large quantities of electricity each month, the smaller monthly consumption of the new consumers when averaged with the increased use of the older consumers produced per consumer averages which obscured the true trends of individual growth in use, and, individual reductions in costs.

RURAL OPERATING AREAS

MILES OF LINE, NUMBER OF CONSUMERS—OCTOBER 31, 1945

Control office location	Rural operating area	Miles of line	Number of consumers					
			Farm	Ham-let	Com-mercial	Sum-mer	Power	Total
Southern Ontario System—								
Niagara Division								
Aylmer	Aylmer	302.41	1,240	577	141	104	3	2,065
Beamsville	Beamsville	271.72	1,470	696	134	147	15	2,462
Blenheim	Blenheim	112.44	482	180	36	68	3	769
Bond Lake	Bond Lake	227.68	755	1,696	127	217	22	2,817
Bothwell	Bothwell	289.54	864	188	97	.....	14	1,163
Brampton	Brampton	206.25	593	276	51	14	4	938
	Streetsville	140.69	494	266	32	60	9	861
Brant	Brant	208.76	927	397	54	6	8	1,392
	Burford	273.74	1,042	392	94	5	1	1,534
Chatham	Chatham	255.16	1,044	690	96	.....	12	1,842
Delaware	Delaware	217.81	769	298	94	.....	3	1,164
	Strathroy	181.88	558	72	45	.....	1	676
Dorchester	Dorchester	170.66	703	252	73	3	11	1,042
Dundas	Dundas	109.40	761	561	75	.....	7	1,404
	Lynden	93.56	120	338	32	.....	1	491
Dutton	Dutton	148.64	389	116	37	11	3	556
Elmira	Elmira	182.01	434	284	46	1	7	772
	St. Jacobs	112.67	277	312	51	14	7	661
Essex	Essex	249.34	1,156	472	68	264	5	1,965
Exeter	Exeter	171.91	560	304	82	441	7	1,394
Forest	Forest	251.04	814	83	50	247	5	1,199
Goderich	Goderich	225.94	617	304	69	238	5	1,233
	Walton	137.78	409	203	63	.....	.....	675
Guelph	Guelph	199.61	597	512	56	9	7	1,181
	Milton	139.66	382	172	50	80	4	688
Haldimand	Haldimand	237.16	734	334	108	117	8	1,301
	Dunnville	97.58	296	189	45	137	3	670
Harrow	Harrow	206.72	947	369	58	846	3	2,223
Ingersoll	Ingersoll	266.81	836	225	51	.....	3	1,115
Keswick	Keswick	206.89	493	679	80	1,307	10	2,569
Kingsville	Kingsville	211.06	1,267	446	84	750	8	2,555
Listowel	Listowel	357.56	1,093	390	100	1	5	1,589
London	London	254.92	923	2,446	149	6	11	3,535
Lucan	Lucan	199.40	541	75	56	.....	.....	672
Markham	Markham	308.80	1,181	1,701	140	729	14	3,765
Merlin	Merlin	300.75	1,089	234	99	112	7	1,541
Mitchell	Mitchell	168.59	188	538	60	.....	4	790
	St. Marys	233.60	812	187	66	.....	3	1,068
	Seaforth	47.03	124	113	14	.....	1	252
Niagara	Niagara	221.35	1,262	1,645	123	141	22	3,193

RURAL OPERATING AREAS
MILES OF LINE, NUMBER OF CONSUMERS—OCTOBER 31, 1945

Control office location	Rural operating area	Miles of line	Number of consumers					
			Farm	Ham-let	Com-mercial	Sum-mer	Power	Total
Niagara Division—Continued								
Norwich	Norwich	185.09	806	172	46	.....	7	1,031
Oil Springs	Oil Springs	216.70	643	129	76	1	3	852
Preston	Preston	211.96	643	1,078	97	119	20	1,957
	Baden	162.43	255	574	70	17	8	924
	Galt	58.06	171	412	16	4	4	607
Ridgetown	Ridgetown	144.76	475	162	46	343	3	1,029
St. Thomas	St. Thomas	257.05	930	864	111	5	5	1,915
Saltfleet	Saltfleet	113.39	414	2,149	95	241	21	2,920
	Caledonia	231.29	804	597	89	.....	9	1,499
Sandwich	Sandwich	176.99	647	3,646	141	.....	18	4,452
Sarnia	Sarnia	139.72	491	1,460	94	557	3	2,605
	Brigden	103.36	307	30	23	15	1	376
Simcoe	Simcoe	152.70	589	407	67	100	4	1,167
	Walsingham	476.48	1,734	620	130	423	3	2,910
Stratford	Stratford	64.47	216	133	26	.....	2	377
Stratford	Tavistock	157.32	549	139	43	.....	2	733
Tillsonburg	Tillsonburg	220.77	893	439	87	.....	11	1,430
Wallaceburg	Wallaceburg	202.46	721	499	82	78	6	1,386
	Dresden	116.25	388	37	28	1	1	455
Waterdown	Waterdown	102.91	483	1,014	69	33	20	1,619
Welland	Welland	381.07	1,322	2,926	194	741	36	5,219
	Chippawa	44.35	129	173	33	.....	2	337
Woodbridge	Woodbridge	321.89	934	971	129	104	23	2,161
Woodstock	Woodstock	204.41	757	375	79	2	6	1,219
Total Niagara	division	12,725.40	45,431	37,331	4,857	8,859	484	96,962

**Southern Ontario System—
Georgian Bay Division**

Bala.....	Bala.....	111.86	35	189	41	496	1	762
Barrie.....	Barrie.....	199.57	549	481	93	474	2	1,599
	Alliston.....	279.80	753	462	76	1,248	3	2,542
Beaumaris.....	Beaumaris.....	108.32	154	146	22	428	2	752
	Utterson.....	66.60	111	81	22	184	.....	398
Beaumaris.....	Baysville.....	78.52	90	111	26	261	.....	488
Bruce.....	Bruce.....	291.24	781	376	126	135	3	1,421
	Holstein.....	53.37	130	28	8	4	.....	170
Caledon*.....	Caledon.....	84.36	231	451	86	57	6	831
Cannington.....	Cannington.....	108.42	235	95	30	106	2	468
Cannington.....	Beaverton.....	71.64	108	130	29	451	.....	718
Hawkestone.....	Hawkestone.....	104.32	212	133	34	242	.....	621
	Sparrow Lake.....	87.59	91	192	30	506	6	825
	Gravenhurst.....	28.32	14	41	5	59	2	121
Huntsville.....	Huntsville.....	135.94	122	437	82	238	4	883

*Served by Caledon Electric Co. (now owned by H-E.P.C.)

Not in rural financial statement for 1945.

RURAL OPERATING AREAS

MILES OF LINE, NUMBER OF CONSUMERS—OCTOBER 31, 1945

Control office location	Rural operating area	Miles of line	Number of consumers					
			Farm	Hamlet	Commercial	Summer	Power	Total
Georgian Bay Division—Continued								
Midland.....	Midland.....	231.59	463	233	82	1,105	.....	1,883
Owen Sound.....	Owen Sound.....	66.02	168	76	19	83	.....	346
	Tara.....	364.53	740	683	155	302	3	1,883
Shelburne.....	Shelburne.....	321.51	703	307	72	39	.....	1,121
Uxbridge.....	Uxbridge.....	298.81	702	587	104	398	2	1,793
Wasaga Beach....	Wasaga Beach....	27.42	1	66	.....	1,532	2	1,601
	Creemore.....	177.69	508	217	63	10	1	799
Wroxeter.....	Wroxeter.....	289.23	706	391	118	136	4	1,355
Total Georgian	Bay division.....	3,586.67	7,607	5,913	1,323	8,494	43	23,380

Southern Ontario System—
Eastern Ontario Division

Arnprior.....	Arnprior.....	90.89	178	499	107	65	11	860
	Renfrew.....	91.10	197	363	80	45	3	688
Belleville.....	Belleville.....	169.35	537	774	80	12	4	1,407
Bowmanville.....	Bowmanville.....	160.22	387	310	42	26	3	768
Brockville.....	Brockville.....	332.13	943	800	200	258	10	2,211
Carleton Place....	Carleton Place....	67.91	135	47	20	26	1	229
Cobourg.....	Cobourg.....	324.76	792	591	128	274	2	1,787
Fenelon Falls....	Fenelon Falls....	183.34	274	206	62	763	2	1,307
	Minden.....	81.10	106	239	51	202	.....	598
	Omeme.....	63.98	129	14	15	25	.....	183
Frankford.....	Frankford.....	270.91	776	493	88	65	4	1,426
	Brighton.....	53.25	167	64	15	1	1	248
Kingston.....	Kingston.....	341.52	906	907	206	237	9	2,265
Martintown.....	Martintown.....	475.86	1,234	923	202	69	.....	2,428
Millbrook.....	Millbrook.....	71.56	184	138	25	2	.....	349
Napanee.....	Napanee.....	314.13	919	548	137	70	5	1,679
Nepean.....	Nepean.....	371.15	1,196	997	225	89	22	2,529
Norwood.....	Norwood.....	67.36	173	85	14	101	.....	373
Oshawa.....	Oshawa.....	239.86	703	2,616	146	249	10	3,724
Peterboro.....	Peterboro.....	163.51	359	527	59	242	5	1,192
Peterboro.....	Lakefield.....	123.26	137	185	47	258	2	629
Smiths Falls.....	Smiths Falls.....	288.24	665	496	151	240	4	1,556
Sulphide.....	Sulphide.....	110.15	191	203	41	44	.....	479
	Madoc.....	67.94	140	65	26	26	.....	257
	Marmora.....	11.44	17	5	1	48	.....	71
Wellington.....	Wellington.....	322.19	1,039	463	103	178	4	1,787
Winchester.....	Winchester.....	470.76	1,619	675	218	16	12	2,540
Total Eastern	Ontario division....	5,327.87	14,103	13,233	2,489	3,631	114	33,570

RURAL OPERATING AREAS

MILES OF LINE, NUMBER OF CONSUMERS—OCTOBER 31, 1945

Control office location	Rural operating area	Miles of line	Number of consumers					
			Farm	Ham-let	Com-mercial	Sum-mer	Power	Total
Thunder Bay System								
Thunder Bay.....	Thunder Bay..... Nipigon.....	296.28 5.25	623 12	684 1	77	196	10	1,590 13
Total Thunder	Bay System.....	301.53	635	685	77	196	10	1,603

Northern Ontario Properties

Connaught.....	Connaught.....	73.63	133	153	29	3	3	321
Manitoulin.....	Manitoulin.....	166.86	236	596	199	71	6	1,108
North Bay.....	North Bay.....	33.72	36	426	21	313	5	801
	Powassan.....	57.30	131	71	14	2	.....	218
Sudbury.....	Sudbury.....	36.51	37	1,429	48	126	5	1,645
Total Northern	Ontario Properties.	368.02	573	2,675	311	515	19	4,093

SUMMARY

System	Miles of line	Number of consumers					
		Farm	Ham-let	Com-mercial	Sum-mer	Power	Total
Southern Ontario							
Niagara division.....	12,725.40	45,431	37,331	4,857	8,859	484	96,962
Georgian Bay division.....	3,586.67	7,607	5,913	1,323	8,494	43	23,380
Eastern Ontario division.....	5,327.87	14,103	13,233	2,489	3,631	114	33,570
Thunder Bay.....	301.53	635	685	77	196	10	1,603
Northern Ontario Properties.....	368.02	573	2,675	311	515	19	4,093
Total all systems.....*	22,309.49	68,349	59,837	9,057	21,695	670	*159,608

*These totals include 740.01 miles of primary line under construction on October 31, 1945, and service to 3,048 new consumers which was not completed at the end of the fiscal year.

SECTION V

PROMOTIONAL AND PUBLICITY SERVICES

WITH the conclusion of the war many of the war services of the Commission ceased entirely and others were curtailed. The problems of reconstruction and reconversion of industry became important and this change in viewpoint was reflected in the publicity services and promotional activities of the Commission.

Advertising and Publicity

An active programme of advertising and publicity of the informative and educational type was produced. Different types of advertisements were designed and published in 232 papers giving a total of about 5,000 messages to the public. Many Hydro utilities were assisted in the preparation of advertising material for use in their local press. A number of pamphlets, school book covers and other folders were provided and given wide distribution by the municipal Hydro Commissions. The publication of "Hydro News" was continued during the year and distributed to all Hydro municipalities.

Motion Pictures

The Commission's motion pictures were widely used and were shown by the Commission's staff to 500 audiences totalling approximately 100,000 people. A new 16 mm sound picture in colour, entitled "More Power to the Farmer" was produced. This picture tells the story of farm electrification and emphasizes the importance of adequate wiring. Arrangements were made with the National Film Board to show Hydro motion pictures on their regular circuits. In this manner approximately 100 additional audiences were reached.

Rural Activities

In the summer of 1945 exhibition material dealing with the use of electricity on the farm was prepared and used later in the year at farm fairs and other rural gatherings with a total audience of approximately 45,000. In preparation for more active work on the Commission's five-year rural plan when labour and materials are sufficiently available, discussions were held with the

agricultural colleges, the Department of Agriculture and manufacturers of farm equipment. Contact was maintained with the Farm Forums throughout Ontario and information on Hydro services supplied.

Industrial Services

In the early part of the year services to war plants were continued by the provision of technical assistance in the effective use of power. In the latter part of the year similar technical advice was given in connection with reconstruction problems. Complete power surveys were made in 22 industrial plants and engineering assistance was given to 100 other plants.

Co-operating with municipal Hydro utilities, information regarding technical problems was supplied to several firms seeking sites for new industry in the Province.

Lighting Services

During the war the opportunity to make lighting improvements was largely confined to industrial establishments. With the end of the war a shift of interest to commercial and other forms of lighting took place. It was gratifying to note the increased interest in the school lighting field and in improved street lighting. For commercial establishments there is a decided preference being shown to fluorescent lighting.

During the year recommended lighting plans were supplied to 448 schools, 34 public buildings and churches, 17 industries and 8 street lighting installations. It is evident from the work carried out in 1945 that there is a greatly increased interest in better lighting and as material becomes readily available installations will increase rapidly, particularly those involving fluorescent lighting.

Northern Ontario Properties

With the inclusion of the Northern Ontario Power Company's system in the Northern Ontario Properties, the Commission became responsible for merchandising operations in various communities formerly served by the Company. These duties have been carried on as well as possible under a limited supply of appliances and equipment. There is evidence that these activities render a valuable service to citizens in a somewhat isolated section of the Province.

Priority and War Equipment Problems

With the cessation of war many of the priority problems rapidly disappeared. Some war restrictions, however, had to be continued and these presented certain difficulties. There were also problems to be solved in obtaining deliveries of unrestricted material in short supply.

During the war the Commission's machine shops under the National Bits and Pieces programme were active in producing war equipment. It is of interest to note that the actual value of the contribution to the war effort by the Commission's service shops exceeded one million dollars.

SECTION VI

HYDRAULIC ENGINEERING AND CONSTRUCTION

ALTHOUGH the year 1945 brought World War II to a close and with it a curtailment of the power demands of war industries, it soon became apparent that the demands for power during the reconstruction period would exceed the supply. Consequently the expansion of the Commission's power and water storage developments must be continued.

On October 1, 1945, the extension of the Alexander power development, consisting of an additional 19,000 horsepower unit was put in service. Two major projects were approved by the Commission in the late summer; the first, at DeCew Falls near St. Catharines, consisting of the installation of a second unit of 70,000 horsepower; and the second, at Stewartville, on the Madawaska river, consisting of the development of 54,000 horsepower. Construction and maintenance work of lesser magnitude were also carried out at several sites for regulating and augmenting water storage and rehabilitating existing structures and equipment.

The properties of the Northern Ontario Power Company, acquired under a purchase agreement as of December 1, 1944, were placed under the operating control of the Commission on March 27, 1945, the capacity of these plants totals about 60,000 electrical horsepower.

Preparations have also proceeded for a development at the Des Joachims power site, on the Ottawa river about 40 miles upstream from Pembroke.

Surveys and studies for an early development of the Aguasabon river proceeded during the year; the potential resources of the Mississagi river were closely investigated, and a proposed overall scheme of development was prepared. Reconnaissance surveys of several other rivers in Northern Ontario were made for the purpose of determining their power resources and storage possibilities.

SOUTHERN ONTARIO SYSTEM

DeCew Falls Development

The installation of a second unit was authorized by the Commission in August, and by the end of the fiscal year, the construction of camp buildings and the installation of power supply for construction purposes were under

way. Provision for a second unit was made at the time of the construction of unit No. 1, and a large portion of the work will be concerned with enlarging the present facilities. As part of the work, the headwaters known as lake Gibson will be raised four feet to elevation 560.0. Flooding caused by the raised water level will necessitate relocating and raising sections of county and township roads, revising Niagara, St. Catharines and Toronto Railway trackage, raising and rebuilding several bridges, and raising and strengthening dykes and embankments. The reservoir canal will be widened and a new sixteen foot penstock will connect the existing headworks with an extension to the sub-structure of the present power house. By deepening the tailrace and raising the headwaters, the operating head for both units of this plant will be increased from 265 to 280 feet.

The Commission's construction staff will be engaged in the major portion of the work except in the tailrace, where contracts will be let to private contractors for the enlargement of the Twelve Mile creek channel and the Second Welland canal.

The new construction supplements the general scheme of development of unit No. 1, and the many problems of construction, which were fully described in the thirty-fifth and thirty-sixth annual reports of the Commission, will have their counterpart in the installation of unit No. 2. It is estimated that construction will extend over a two-year period.

Niagara River Power Plants

At the Ontario Power plant, a second exploration shaft was sunk to examine No. 1 conduit, and it was found that no appreciable deterioration had taken place since the previous year.

At the Toronto Power plant, new runners and gates for the four 13,000 horsepower turbines were installed, and it is interesting to note that these changes were made on units which went into service when the plant commenced operation in 1906.



NIAGARA RIVER REMEDIAL WEIR
Broken water at the crest of the completed weir

Niagara River Remedial Weir

At the Niagara river remedial weir observations indicated that the behaviour of the weir was satisfactory when ice was running in the river. The weir is considered to be completed but the cableway was not removed in case observations indicated that some additional work is required. To facilitate free and safe movement of traffic on the boulevard, a well-surfaced by-pass road was built around the head tower on the Canadian shore. The road was equipped with a substantial guard rail and well-marked guide and warning signs.

Ogoki Diversion

Improved radio communication facilities were provided between Waboose dam and Summit Control dam. Studies of run-off, stream flow and discharge proceeded, and ratings were made to determine stage-discharge relationship.

Georgian Bay Division

The economics of alternative sources of additional power for the Georgian Bay division were studied, and estimates of costs of several potential sites on the Muskoka river were prepared and analyzed, the site at Mathiasville receiving particular attention.

Eastern Ontario Division

Studies, layouts and comparative estimates were made for hydro-electric developments on the Madawaska river at Claybank, Mountain chute, Hyland chute, Racket rapids and Stewartville. Field survey work was performed at several of the sites and sub-surface explorations and investigations were conducted at Stewartville, Claybank and Colton chute. Form line drawings of that section of the river from Hyland chute to Palmer rapids were made in co-operation with the aerial division of the Department of Lands and Forests.

At Lakefield generating station on the Otonabee river, rehabilitation of the concrete structures and the consolidation of rock foundations were completed by means of the intrusion method of grouting.

Stewartville Development

The second phase of the comprehensive scheme of power development of the Madawaska river was authorized by the Commission in September, 1945, in order to meet the immediate growing demands for power in eastern Ontario. After careful study, the Stewartville site was found to be the most economical in meeting present requirements, and surveys for construction roads and camps were progressing at the end of the fiscal year.

The Stewartville site is approximately eight miles south-west of Arnprior, and derives its name from a once-flourishing hamlet which is now deserted. The new development will produce 54,000 horsepower under a head of 150 feet, and it is expected will be available for use during the fall of 1947.

The general scheme of development provides for a concrete dam with a maximum height of some 200 feet and a length of 850 feet. A concrete side dam about 500 feet long angles off from the south end of the main dam.



STEWARTVILLE POWER DEVELOPMENT—MADAWASKA RIVER

A view of river looking upstream from the Stewartville bridge toward the power site

The headworks will be incorporated towards the north end of the dam and will be connected by two 14-foot diameter penstocks approximately 190 feet long, to the power house at the base of the dam. A sluiceway provided with two steel sluice gates, each forty feet wide, and two sixteen foot stop log sluices will be placed at the south end of the dam, and a concrete training wall will protect the power house from damage by flood waters. A 30-foot diameter tunnel through rock underneath the sluiceway will divert the flow of the river and allow construction of the dam in the dry. This tunnel will later be closed off by steel gates and a concrete plug poured behind them.

Des Joachim's Power Site

Preparatory work was continued looking forward to the construction of a hydro-electric development on the Ottawa river at Des Joachims. The fall in the river between Des Joachims and Mattawa can be concentrated by the construction of a concrete dam to give a head of 135 feet at the power site. The power house as designed will accommodate six generating units of 60,000 horsepower each with provision for the later installation of two additional units.

THUNDER BAY SYSTEM

The power supplies of the Thunder Bay system were increased by the installation of a 19,000 horsepower unit under a head of 58 feet at Alexander development. This plant was originally designed for four units under a head of 60 feet; three 18,000 horsepower units were installed in 1930 and 1931 when the plant was constructed, but provision was made for a fourth. Construction of this unit was commenced in March, 1944, and the unit went on load on October 1, 1945. A log slide was also completed, a scale model being first tested at the hydraulic laboratory of the University of Toronto. The slide has proved very satisfactory in operation.

The additional water supply made available by the Ogoki diversion has materially increased the potentialities of the Nipigon river, and close attention was paid to the possibilities of further extensions at Cameron Falls and Alexander, as well as the development of other sites. Revised regulation studies of lake Nipigon also proceeded throughout the year, and the effects of higher water levels were examined. Reconstruction of the government dock at Macdiarmid and rip-rapping of Canadian National Railways trackage at Orient bay were completed in anticipation of raising the regulated high water to elevation 855.0.

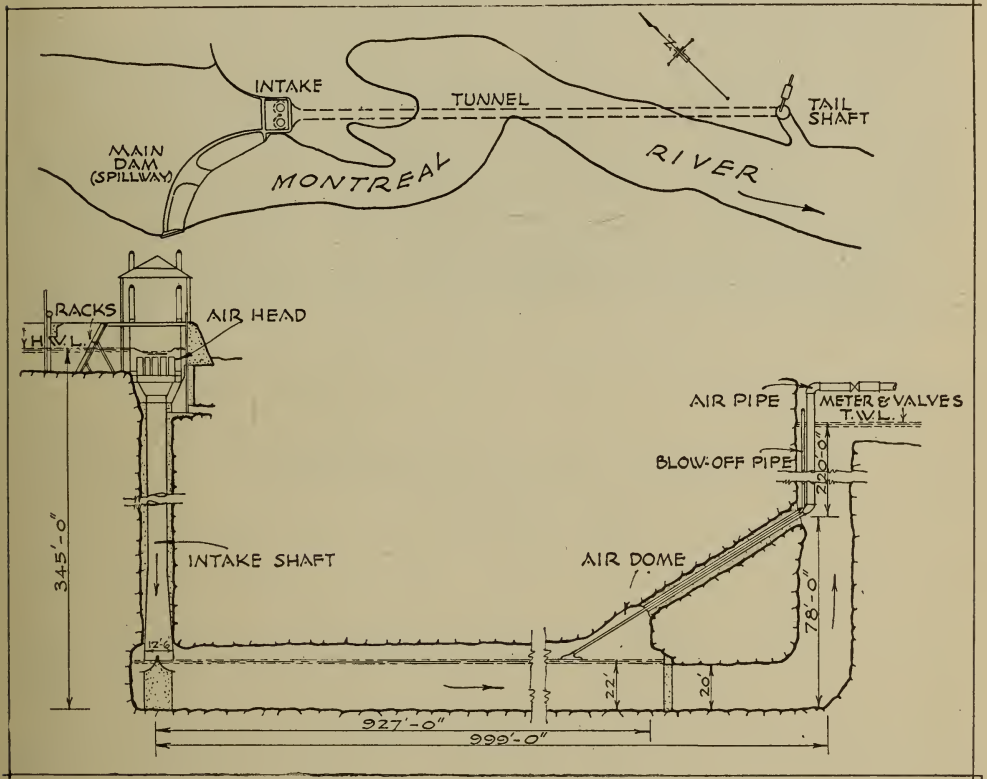
Aguasabon River

The development of the Aguasabon river as a major source of power was under consideration, and detailed studies and layouts were made during the year. The Long Lake diversion has increased greatly the value of this river as a source of power, as the diverted waters pass through it to lake Superior. Near the outfall into the lake, the river drops some 225 feet through a series of rapids, and by means of a dam a head of 300 feet may be developed. Topographic surveys and diamond drilling were actively proceeding to the end of the fiscal year.



MORE POWER FOR THE THUNDER BAY DISTRICT
Falls at the mouth of the Aguasabon river

The proposed scheme of development would place the power house on the shores of lake Superior at Terrace Bay, and connect it to the headworks on the artificial lake created by the dam, by a 15-foot diameter tunnel and penstock some 2,600 feet long. The peak capacity of the plant will be approximately 53,000 horsepower, and construction will extend over a period of about two years.



TAYLOR HYDRAULIC AIR COMPRESSOR

The Taylor hydraulic air compressor plant was constructed in 1910 at Ragged Chute on the Montreal river in the vicinity of Cobalt, Ontario, to provide compressed air for the silver mining activities in the area. The principle of its operation is illustrated in the above sketch. Water enters the plant from the river past the head gates, through the racks and is delivered at the intake heads located at the top of the two intake shafts.

Air is introduced into each shaft through a set of 66 short vertical pipes 14 inches in diameter, fixed to and discharging through the intake head. This device is adjustable vertically and is preferably set to locate the top of the air inlet pipes a few inches below the water level at the intake head.

Passing down the intake shaft the air is compressed as the water pressure increases and at the bottom the mixture is deflected horizontally along the tunnel where under low velocity the air gradually escapes and eventually collects in the air dome at a pressure of approximately 125 pounds per square inch. From this point it is conducted through a 24-inch pipe to the valve and meter house and conveyed through 20-inch mains to the distribution centers. The water passes up the outlet shaft and is discharged to the river at a tailwater level some 47 feet below the intake water level.

When air pressure in the dome rises above normal, the water surface in the tunnel is gradually depressed, and surplus air is vented through the blowoff pipe.

NORTHERN ONTARIO PROPERTIES

A scheme for the overall development of the Mississagi river was studied, and four major sites with an aggregate capacity of approximately 150,000 horsepower, to be developed progressively as required by load conditions, were investigated.

A survey party was engaged during the summer supplementing previous field information in connection with these sites, and diamond drilling was carried out to examine sub-surface conditions at a proposed storage dam site at Rocky Island lake. Field parties were also engaged during the summer on several rivers in northern Ontario, and preliminary data were obtained of sites for storage and power development.

Watabeag Lake Dam

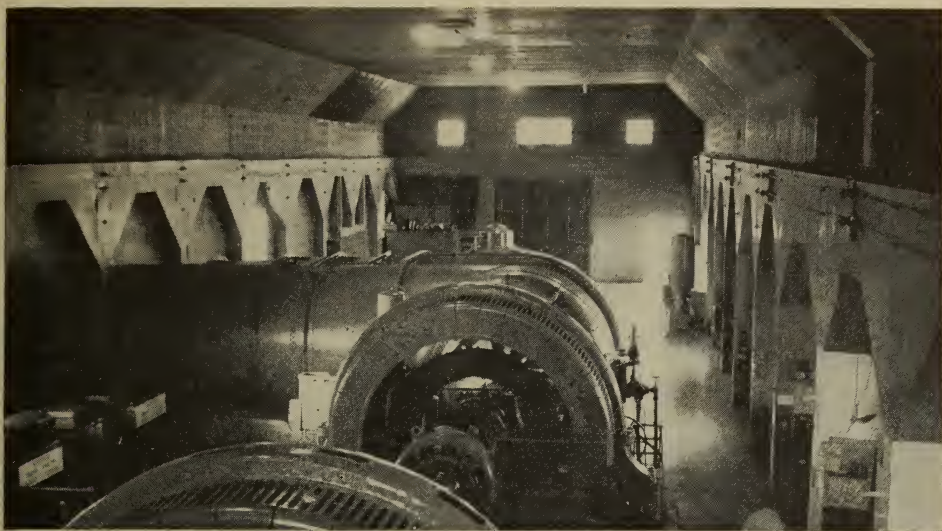
The construction of Watabeag Lake dam, to improve the storage facilities on the Abitibi river, was started by the Commission's construction staff in August 1945, and was nearing completion at the end of the year. The dam is a rock-filled timber crib and earth dam some 200 feet long with a maximum height of fifteen feet; it has two sluiceways, one 14 feet wide and another 8 feet wide used for log-driving purposes.

Frederick House Dam

An access road from Connaught was constructed by contract and a portion of the provincial highway was raised to accommodate the higher water level of Frederick House lake. Negotiations for settlements of claims were conducted with owners of property affected by the higher water levels on Frederick House and Night Hawk lakes. The increase in the elevations of these lakes by one foot will provide an additional 34,000 acre feet of storage, and will allow an additional development of 6,700,000 kw-hrs energy each year at Abitibi Canyon.

Northern Ontario Power Company Plants

In March, 1945, the Commission commenced operation of the generating stations and other properties of the Northern Ontario Power Company previously acquired under a purchase agreement. These properties comprise eight hydro-electric plants, with a total capacity of about 60,000 electrical horsepower, complete with transmission lines and distribution facilities. Of this installation, five plants of a capacity of 35,000 horsepower are situated on the Matabitchuan and Montreal rivers, in the Cobalt area, and the remaining three on the Mattagami river, in the Timmins area. Included also in the purchase was a hydro-pneumatic station, utilized for production of compressed air, for distribution to mining customers in the neighbourhood of Cobalt.



A POWER DEVELOPMENT ACQUIRED BY HYDRO
Sandy Fall generating station, Mattagami river—No. 2 Unit

HYDRAULIC INVESTIGATIONS

Activities in the field were widespread, and foundation investigations and topographic surveys were conducted at numerous sites in preparation for the provision of further sources of power supply and storage facilities. In this connection surveys were carried out on the Madawaska, French, Muskoka, Magnetawan, Mattagami, Groundhog, Abitibi and Kaministiquia rivers.

At Silver falls, on the Kaministiquia river, some thirty miles north-west of Fort William, at a site near the outlet from Dog lake where the river drops in a series of cascades some 350 feet, diamond drilling has been in progress to determine the subsurface rock conditions and enable a plan of development to be prepared.

A study of the French river as a source of power complementary to power supplies from the Abitibi river was completed. This brought up to date the study made in 1939, which covered the years 1922 to 1936.

Preliminary examination of the power possibilities of the Magnetawan river disclosed the possibility of developing some 30,000 horsepower.

Data were being compiled, and layouts and preliminary estimates of several other proposed developments were being carried out at the end of the fiscal year.

Normal maintenance work on structures and hydraulic equipment, and routine collection of hydrometric data continued.

Engineering assistance was given by the Commission upon request to various public bodies in regard to hydraulic problems.

SECTION VII

ELECTRICAL ENGINEERING AND CONSTRUCTION

FOR the first nine months of the fiscal year actual construction work continued to be restricted to projects contributing directly to the war effort or the maintenance of essential civilian services. A great number of undertakings were carried out to accommodate changing load demands or for essential maintenance, but major undertakings were few, and the total volume of construction was much curtailed.

After the month of August, the gradual lifting of construction controls made it possible to proceed with certain pressing work previously held on the deferred list. Continuing shortages of labour and materials, however, limited the volume of actual construction achieved.

Planning Ahead

Studies relating to supplies of power in the post-war era were continued, particular attention being given to the immediate post-war programme. The studies have a broad scope, and include various possibilities of load growth throughout Ontario during the next ten to fifteen years, the best sequence of power developments, and the most suitable over-all arrangement of transmission lines and other facilities. As a result of these, and other more localized studies, various new projects were authorized in the latter part of the year with the assurance that they will fit into a flexible and comprehensive long-term plan. The projects authorized represent only the more urgent. They include new generating capacity in the Southern Ontario system at DeCew Falls and Stewartville; the integration and tying together through a new station at Scarborough of the Niagara, Georgian Bay and Eastern Ontario divisions of the recently consolidated Southern Ontario system; augmented power supply to many areas, involving new transmission lines, new transformer and distributing stations, and extensions to existing lines and stations; and miscellaneous system, line, station, and rural power changes and improvements:

The Commission's network calculator was in constant use in connection with these studies, and is now being enlarged, in order to have sufficient facilities to represent as one combined unit the three recently amalgamated divisions forming the Southern Ontario system.

New Generating Capacity

The fourth unit at Alexander generating station was placed in service on October 1, 1945, increasing the station capacity to 60,000 kva.

Increased Transformer Capacity

At the end of this section is given a tabulation of the transformer and distributing stations where major increases in transformer capacity were placed in service. A number of the stations listed are new. Associated with many of the transformer changes were alterations and additions to station structures, switching, metering and station protection.

Other transformer changes are in progress, and about 25 new stations are either in the design stage or commencing construction.

Acquired Properties

Early in the year, properties of the Northern Ontario Power Company and the Caledon Electric Company were acquired. The effective dates of purchase were November 30, 1944 and December 1, 1944, respectively. The work of amalgamating these purchased lines and stations with the Commission's existing lines and stations in the Abitibi district and the Georgian Bay division respectively is proceeding.

New Transmission Lines

New transmission lines placed in service include 56.4 miles of 110,000-volt wood-pole transmission line to serve the Department of National Defence Atomic Research plant near Chalk River, and approximately 27 miles of 26,400-volt and 44,000-volt transmission lines to serve new customers and



LINE CONSTRUCTION IN THE WINTER

Wishbone portion of the 110,000-volt, wood-pole transmission line supplying power to the Atomic Research Plant near Chalk River, Ontario

distributing stations. Substantial progress was made on a 110,000-volt steel-tower transmission line from a point near Ottawa 51.3 miles to Cornwall. Surveys were begun for the construction of approximately 100 miles of 110,000-volt steel-tower transmission lines for the interconnection of the Georgian Bay, Eastern Ontario, and Niagara divisions. Authorization was given for a 110,000-volt line 42.25 miles long between Chatham and Sarnia. With the purchase of the Northern Ontario Power Company's properties, some 535 miles of transmission lines were acquired operating at voltages from 11,000 to 110,000 volts.

Tie Line Control

The establishment of the tie between the Niagara, Georgian Bay, and Eastern Ontario divisions through the frequency-changer set at Scarborough, added to the existing ties between the Niagara and Georgian Bay divisions at Hanover, and the Niagara and Eastern Ontario divisions at Chats Falls, will necessitate the installation of a new integrated scheme of tie-line control, centred at one point. Extensive study was given to this matter, and estimates were prepared.

Rural Extensions

Measures were initiated to supply the accumulated demand for distribution lines and services in rural power areas resulting from material and labour scarcities during the war. An increased programme of construction was authorized, and carried out to the limit of available supplies. For a large part of the fiscal year it was necessary to restrict new rural power services to essential food producers; however, the removal of non-ferrous metal controls in June, 1945, made it possible in the latter part of the year to include installations to all classes of rural customers. A summary at the end of this section shows the mileage of lines built and the number of additional consumers served. Many changes were made to improve voltage regulation and continuity of service.

Communication Systems

Communication systems are being constantly rehabilitated, unified, and extended, to provide adequate service for the ever-increasing requirements of the developing power systems.

Oil Circuit-Breakers

The continual growth of the systems frequently requires the replacement of oil circuit-breakers by new breakers of higher rupturing capacity. Replaced breakers, where suitable, are used elsewhere.

In order to check the calculated short circuit kva developed on the system under operating conditions, and the ability of the new oil circuit-breakers to interrupt it, staged tests were made in December, 1944, at Burlington transformer station on two 138,000-volt-class oil circuit-breakers. The tests were made while the system was substantially in normal operation, and as far as is known from available records, the current interrupted was greater, with one exception, than any breaker had previously been subjected to on a staged field test. The results of the test have given valuable information with respect to the future purchase and application of oil circuit-breakers on the Commission's systems.



WAR-TIME LINE CONSTRUCTION IN THE WINTER

Engineering Assistance

Engineering assistance was given to a number of municipalities and large power customers in connection with the purchase and installation of new equipment, changes and additions to existing stations, and the construction of new stations. In many cases field construction was carried out. Engineering assistance was also given in connection with the approval of electrical installations over 600 volts.

Equipment Deliveries

In general, electrical engineering and construction work during the year was handicapped by the shortage of trained staff and the time required to obtain delivery of equipment and materials. Trained personnel have now commenced to return from the services, but the time required to obtain deliveries has not shown improvement.

To ensure equipment deliveries that will tie in with the construction and rehabilitation programme authorized during the year, extensive orders were placed, or are in process of being placed, for items of major equipment requiring a lengthy time to manufacture. Typical of such equipment are three generators and one frequency changer; various classes and ratings of power transformers and oil circuit-breakers; standard outdoor station structures; transmission lines towers; insulators and conductors. The promised delivery dates extend over a period of approximately two years.

Salvage of Old Poles

When the shortage of lumber became acute in 1944, the Commission investigated the possibilities of converting discarded poles into usable lumber, and, as a result, a portable saw mill and planer were set up at the Hamilton (Beach road) service building. During the 1945 fiscal year, 785 old poles were collected from nearby districts and sawn into lumber and square timber, chiefly used for crating purposes, and for permanent cribs and booms in the DeCew Falls forebay; 207 saw logs were cut off the Commission's Lambton Park Property, and converted into 17,775 fbm of good pine lumber; and 15 saw logs (mostly oak) were obtained from the transmission line operations between Toronto and Hamilton, and cut up into skids suitable for shipping transformers and heavy construction equipment. The continuing shortage of lumber, and estimates of the number of discarded poles and other timbers expected to become available, indicate an expansion of this undertaking as a salvage operation. The results so far achieved denote a welcome source of readily available lumber at comparatively low cost, for which many uses will be found in the planned construction programme.

Further particulars of the more important work carried out and authorized are given below, under system headings.

SOUTHERN ONTARIO SYSTEM

New Generating Stations

Authorization was given for the installation at DeCew Falls generating station (25-cycle) of the second generating unit, with its associated transformation and switching equipment. The generator will have a capacity of 64,000 kva, and will be installed in an extension to the building. It is scheduled to be in service during the fall of 1947. Contracts were let for the manufacture of the second generating unit and for the power transformers. Similar power transformers for Unit No. 1 were also purchased, to replace the temporary transformers which were originally used at Allanburg transformer station.

The construction of a new generating station at Stewartville on the Madawaska river, was authorized. This station also is scheduled to be in service during the fall of 1947. Two generators, each having a capacity of 24,000 kva, are now being ordered.

Additional Frequency Changer Station

The Scarborough frequency-changer installation will initially include one 25,000-kva, 25/60-cycle, 300 rpm, 13,800-volt horizontal type frequency-changer, with 25-cycle and 60-cycle transformation and switching. The transformer station installation will initially include two 8,000-kva, 25-cycle, 110,000/26,400-volt, 3-phase transformers, with high-and low-voltage switching. These transformers will supplement existing transformation facilities now loaded to the limit in the suburban area east and north of Toronto. Purchase of major station equipment is under way and the contract for the frequency-changer has already been let.

Exchange of power and energy between the 60-cycle Georgian Bay and Eastern Ontario divisions will be effected over new transmission lines con-

necting the new station at Scarborough to the existing transformer station at Oshawa, and to a new transformer station at Fergusonvale. Transfer of power and energy to and from the 25-cycle Niagara division will be effected through the Scarborough frequency-changer and over a new transmission line connecting the new Scarborough station to Toronto-Leaside transformer station. The 60-cycle transmission lines to Oshawa and Fergusonvale are scheduled to be completed and temporarily tied together in the early summer of 1946. The new Scarborough station and the connecting line to Toronto-Leaside are scheduled for completion in the spring of 1947.

In connection with the above, a new 15,000-kva, 110,000/44,000-volt transformer station, with switching and 44,000-volt regulating equipment is being planned for Fergusonvale. On the 110,000-volt side it will initially be connected to Oshawa transformer station, but will eventually be fed from the new Scarborough station 110,000-volt bus. On the 44,000-volt side it will be tied in to the Georgian Bay division through the 44,000-volt bus in the existing Fergusonvale auto-transformer station on the same site.

Authorization was also given for the installation at Oshawa transformer station of 110,000-volt switching equipment to control the new line to Scarborough and the existing line from Sidney; and for the installation at Toronto-Leaside transformer station of two 2,500,000-kva oil circuit-breakers and associated equipment to control the new connection to Scarborough. The work at Oshawa will include the installation of 21,000-kva equipment to regulate the voltage of the 44,000-volt power supply. The work at Toronto-Leaside will include the replacement of eight existing 1,500,000-kva circuit-breakers of 2,500,000-kva rated capacity to provide increased rupturing capacity for higher power concentrations.

New Terminal Station and Service Centre

Studies of the greater Toronto area have demonstrated the need of a 220,000-volt terminal transformer station on the western side to provide facilities similar to those now provided by Leaside transformer station on the eastern side. A suitable undeveloped area of land was purchased in Etobicoke township, near Islington, for such a station and for its associated transmission line rights-of-way, and also, adjoining the station, for the future establishment of a service centre. Because of a re-arrangement of transmission lines west of Toronto, the 110,000-volt switching portion of the proposed future 220,000-volt terminal station will be constructed first; and preliminary design, and the purchase of switch yard equipment is progressing. Construction of this initial portion, and of associated transmission line changes to co-ordinate the 110,000-volt circuits in the westerly portion of the Toronto metropolitan area, is scheduled for completion at the end of 1946.

Preliminary studies are under way regarding the proposed service centre, the purpose of which will be to centralize major repair, maintenance, salvage, storage, shop, garage, and other service facilities. Initially, it is only proposed to install much needed pole-storage facilities, with railway sidings and access roads.

Other Changes

The installation of the 40,000-kva synchronous condenser at Essex transformer station is almost complete, and it will be placed in service early

in 1946. The new control room, and the outdoor equipment which is to replace the indoor portion of the 26,400-volt bus and switching equipment, will be completed later in 1946.

The supply of power to the Atomic Research plant of Defence Industries, Limited, near Chalk river, involved, in addition to the new transmission line, the construction of a 110,000-volt switching station at Haley, and a 3,000-kva, 110,000/2,400-volt step-down transformer station at the Defence Industries, Limited plant. The new stations and line were placed in service at the end of April, 1945.

For the supply of power to an area within the Martintown rural power district, a 44,000-volt, wood-pole transmission line was constructed 16 miles from Maxville to Plantagenet Springs, where a 1,000 kva, 44,000/8,000-volt, step-down distributing station was installed. This area is now supplied from Cornwall, but previous to September 30, 1945, it was supplied through Treadwell.

Lines and stations in the southern portion of the Eugenia district, Georgian Bay division, are being converted from the existing operating voltage of 22,000 volts to a higher voltage in order to improve voltage regulation, increase transmission capacity between Eugenia generating and Hanover frequency-changer stations, and feed the new station at Orangeville. Most of the lines have been re-insulated, and with the completion of changes authorized at Eugenia generating station, Hanover frequency-changer station, and Dundalk, Durham, Grand Valley, Mount Forest, Orangeville, Priceville, and Shelburne distributing stations the circuit voltage will be raised to 44,000 volts.

To provide for increasing loads and new industrial customers in the Cornwall area a 110,000-volt steel-tower direct line from Ottawa to Cornwall was decided upon. This line is scheduled to be in service, with temporary terminal connections, early in 1946. Plans are being prepared for the installation at Cornwall switching station of new 110,000-volt switching equipment; and for the installation at Cornwall transformer station of an outdoor 15,000 kva, 110,000/44,000/4,000-volt, self-cooled transformer bank, including a spare 5,000-kva unit, 15,000-kva, 44,000-volt regulating equipment, and necessary structures, switching and other auxiliary equipment. The new transformers and regulator have been purchased, and changes at the two stations are scheduled for completion in the summer of 1946. It is planned to convert the existing bank of water-cooled transformers to self-cooled units and to re-connect them for 11,000-volt service.

During the war years it became apparent that, for security of service, a 110,000-volt switching station was required in the vicinity of Ottawa. With the addition of the new 110,000-volt circuit to Cornwall the need for such a station became urgent. Land is being purchased south of Ottawa and a new station to be known as Merivale switching station is scheduled to be in service during 1946.

At Hamilton-Gage transformer station a fourth 25,000-kva transformer previously held in reserve equipment was connected into service, with the necessary high and low-voltage structures and switching equipment. This increases the station capacity to 100,000 kva and will make additional power available to the Hamilton Hydro-Electric System for a new load at the Steel Company of Canada. At Toronto-Fairbank transformer station, to supply increasing demands in the north-western Toronto area, the third 25,000-kva,

110,000/26,000-volt, 3-phase transformer, previously available as an unconnected spare, is being permanently connected, and the necessary high and low-voltage structures and switching installed.

A new 8,000 kva, 110,000/26,400-volt transformer station was authorized at Caledonia, to improve voltage conditions and to reduce the load on Dundas transformer station. The new station will serve Caledonia, and municipalities and rural power areas south of that village which are now supplied from Dundas. The station is scheduled for completion in 1946.

Conditions in the St. Catharines-Thorold area are being studied to provide a new transformer station.

Field construction of the 110,000-volt steel-tower transmission line between Kent and St. Clair transformer stations will be commenced in December, 1945, and is expected to be completed in the summer of 1946. In connection therewith, high-voltage switching will be installed at Kent transformer station. The work includes a new 110,000-volt outdoor switch structure, the extension to this structure of the indoor bus, and the modernization of station lightning protection.

Increasing loads at Sidney transformer station were taken care of during the war years by installing forced air cooling on the transformers, but the limit of capacity to be obtained by this method has been reached and a second 15,000-kva, 110,000/44,000/4,000-volt transformer bank, together with a 15,000-kva voltage regulator, will be placed in service early in 1946. In the Kingston area, the installation of a second 15,000-kva 110,000/44,000/4,000-volt transformer bank at Frontenac transformer station, together with a 15,000-kva voltage regulator was authorized, and is scheduled for completion late in 1946.

To meet increased load conditions at West Lorne distributing station and to improve voltage regulation in the district supplied by St. Thomas transformer station, the transmission voltage is being raised from 13,200 to 26,400 volts. The work, scheduled for completion in 1946, includes the installation of two 5,000-kva, 13,200/26,400-volt auto-transformers at St. Thomas, the re-insulating of 48.9 miles of transmission line, and the raising of the operating voltage at West Lorne, Dutton, Shedden, Aylmer, St. Thomas Provincial Hospital, and Port Stanley distributing stations. The station capacities at West Lorne and Port Stanley will be increased.

Rapidly growing summer resort loads on the west shore of lake Simcoe are overloading the existing stations. To assist in carrying these loads authorization was given for a new 1,000-kva, 44,000/8,000-volt distributing station at Alcona Beach for initial operation at 22,000/8,000 volts. The station will be supplied by a new 7.6 mile wood-pole line from the existing Barrie-Bradford line.

With the purchase of the Caledon Electric Company, studies were made of the best method of incorporating its properties into the Georgian Bay division. Authorization was given for the construction of a new 44,000/12,000-volt step-down station, to be known as Orangeville distributing station No. 2; a new 12,000-volt line from Orangeville to Cataract; and the raising of the voltage of the Caledon Electric Company lines from 6,600 to 12,000-volt operation, with necessary rehabilitation.

Engineering and purchasing assistance is being given, and construction work undertaken, in connection with new municipal stations for the Belleville, Chatham, Goderich, and Waterloo Public Utility Commissions, and for the

Brantford Township and East York Hydro-Electric Systems. The construction of Almonte municipal station, referred to in last year's report, was completed. Engineering assistance is being given to the Board of Light and Heat Commissioners of Guelph in the preparation of drawings for its new municipal station No. 5, and engineering assistance to the Peterborough Utilities Commission, mentioned last year, was continued. The construction of new substations for the Thorold and Picton Public Utilities Commissions has been authorized.

In order that the Ottawa Hydro-Electric System could plan for a new substation, which would need to be placed adjacent to a step-down station of the Commission, the Commission was requested to determine by an analysis of the local system's loads the most suitable location for the two stations. As a result of the study a combined site for the two stations was purchased, and the Ottawa Hydro-Electric System will shortly construct its low-voltage substation. The Commission's station will be known as Ottawa-Riverdale transformer station.

THUNDER BAY SYSTEM

The fourth 15,000-kva unit at Alexander generating station was placed in service on October 1, 1945, increasing the station capacity to 60,000 kva.

A new 500-kva, 110,000/2,300-volt distributing station is being installed at Nipigon to supply power to the village and surrounding area. The new power supply will replace the existing supply from step-down transformers owned by the Brompton Pulp and Paper Company.

The site and transformers have been purchased for a new 15,000-kva, 110,000/22,000-volt transformer station No. 2 at Port Arthur.

NORTHERN ONTARIO PROPERTIES

Abitibi District

Ramore 26,000/8,000-volt, 3-phase distributing station No. 1 will in future supply the Matheson area, and its capacity is being increased from 75 kva to 150 kva. To supply the Ramore area, a new 75-kva, 26,400/4,600-volt single-phase distributing station is being installed on the Ramore transformer station site. It will be known as Ramore distributing station No. 2.

Equipment was installed at Kirkland Lake transformer station to supply separate regulated voltage to the new Timiskaming district and to Lake Shore Mines, Ltd. Changes and additions are being made to the telephone equipment to facilitate the interconnection of the Abitibi and Timiskaming district communication systems.

Timiskaming District

This district comprises properties purchased from the Northern Ontario Power Company.

Plans are under way for the amalgamation of the purchased properties with the Abitibi district. This will involve changes to and rehabilitation of purchased stations and transmission lines in the Timmins-Schumacher, Cobalt, and Kirkland Lake areas; alterations to and rehabilitation of purchased generating plants supplying these respective areas; and the installation of load totalizing metering in various customers' stations.

The two 10,500-kva, 26,400/12,000-volt transformer banks and associated equipment at the Hollinger Consolidated Gold Mines which were

originally installed by the Company to receive 26,400-volt power were taken over by the Commission; and switching, metering, and other additions and changes were made to supply power to the Hollinger mines at 12,000 volts, and to provide a tie between the Abitibi and Timiskaming districts through Schumacher transformer station. The station, as changed, is known as Hollinger transformer station, and was put into service during May, 1945.

Sudbury District

In connection with the Sudbury rural power district, a new 1,000-kva, 22,000/12,000-volt distributing station No. 3 was installed at Sudbury; the distribution system is being changed from 4,000-volt to 12,000-volt operation; and necessary extensions are being made. The existing Sudbury distributing stations Nos. 1 and 2 were sold to the Sudbury Hydro-Electric Commission, with the exception of certain minor equipment.

A 10-kva, single-phase, 22,000/220-110-volt outdoor station was installed for the Canadian National Railways at St. Cloud, and placed in service in January, 1945.

Nipissing District

A new 1,000-kva, 22,000/12,000-volt distributing station to operate initially at 22,000/8,000 volts, was constructed at North Bay to replace North Bay rural station, which is being dismantled.

Transformer capacity at Bingham Chute generating station for the Powassan rural power area was increased from 75 kva to 250 kva.

Authorization was given to increase the capacity of the Sturgeon Falls-North Bay 22,000-volt tie line.

Manitoulin Rural Power District

Studies are under way regarding possible additional sources of power supply to Manitoulin rural power district.

Patricia District

A new 600-kva, 44,000/2,300-volt distributing station was installed at Red Lake townsite.

Rainy River District

The new 450-kva, 44,000/8,000-volt Atikokan distributing station was placed in service during Februray, 1945.

TRANSFORMER CHANGES COMPLETED DURING YEAR ENDED OCTOBER 31, 1945

Installed transformers							Removed transformers		
Station	No	kva	Ph.	Total kva	From	In Service	No	kva	To
SOUTHERN ONTARIO SYSTEM									
Aldershot.....D.S.	3	333	1	1,000	New	Nov. 26, '44	3	150	Rockwood D.S.
Alexandria.....D.S.	1	600	3	600	New	July 8, '45	1	300	Reserve
Almonte.....M.S.	1	1,000	3	1,000	New	Dec. 31, '44			
Balderson.....D.S.						May 25, '45	1	150	Reserve
Bowmanville.....D.S.	1	1,000	3	1,000	Reserve	Nov. 1, '44			
Canada Cement (Belleville Lehigh).....D.S.	1	1,500	3	1,500	Cornwall Howard Smith D.S.	Dec. 5, '44			
Consecon.....D.S.	3	200	1	600	Reserve	Feb. 4, '45	3	100	Stirling
Cookstown.....D.S.	1	150	3	150	Reserve	Nov. 28, '44	1	75	Reserve

TRANSFORMER CHANGES COMPLETED DURING YEAR ENDED OCTOBER 31, 1945

Installed transformers							Removed transformers		
Station	No	kva	Ph.	Total kva	From	In Service	No	kva	To
SOUTHERN ONTARIO SYSTEM—Continued									
Cooksville.....T.S.	3	1,250	1	3,750	Reserve	Mar. 21, '45	2	1,250	Salvage
							1	1,250	Reserve
DeCew Falls.....G.S.	1	600	3	600	New	July 5, '45	1	250	Reserve
							1	333	Reserve
Defence Industries Ltd. } Project N.R.X.....T.S. }	3	1,000	1	3,000	New	Apr. 29, '45			
Dresden.....D.S.	3	333	1	1,000	Reserve	Sep. 16, '45			
Dublin.....D.S.	1	300	3	300	Reserve	Apr. 17, '45	1	75	Salvage
							1	75	Reserve
Essex.....T.S.	1	5,000	1	5,000	Reserve	Mar. 26, '45	1	5,000	Reserve
Huntsville.....D.S. No. 2	3	333	1	1,000	Reserve	July 1, '45			
Huntsville.....R.S.						July 1, '45	3	50	Reserve
							3	75	Reserve
Island Grove.....D.S.	1	600	3	600	Reserve	June 30, '45			
Lindsay.....D.S.	1	500	3	500	Salvage	July 7, '45			
London.....T.S.	1	5,000	1	5,000	Reserve	June 7, '45			
Midhurst.....D.S.	3	200	1	600	Reserve	Nov. 16, '44	3	100	Reserve
Milton.....D.S.	3	333	1	1,000	New	Oct. 28, '45			
Milverton.....D.S.	3	250	1	750	Woodbridge D.S.	Apr. 3, '45	3	150	Reserve
Newburgh.....D.S.	1	37.5	1	37.5	Rural Stores	Nov. 5, '44			
Oakville.....D.S.	3	200	1	600	Reserve	Nov. 12, '44			
Oakville (Can. Dehydrated Alfalfa) D.S.						Feb. 7, '45	3	50	Salvage
Perth.....D.S. No. 2	3	200	1	600	New	May 6, '45	3	100	Reserve
Plantagenet Springs. D.S.	3	333	1	1,000	New	Sep. 30, '45			
Rockwood.....D.S.	3	150	1	450	Aldershot D.S.	June 10, '45	3	75	Reserve
Seaforth.....D.S.	3	75	1	225	Reserve	July 22, '45			
Stirling.....D.S.	3	100	1	300	Consecon D.S.	June 10, '45			
Tavistock.....D.S.	3	667	1	2,000	Reserve	Sep. 23, '45	3	250	Reserve
Thornbury.....D.S.	3	75	1	225	Reserve	Aug. 24, '44			
Utterson.....D.S.	3	200	1	600	New	June 8, '45			
Willowdale.....D.S.	2	1,000	3	2,000	New	Nov. 30, '44	3	667	Reserve
Winchester.....D.S.	1	600	3	600	New	Feb. 18, '45	1	300	Reserve
Woodbridge.....D.S.	3	667	1	2,000	Reserve	Nov. 26, '44	3	250	Milverton D.S.
THUNDER BAY SYSTEM									
Port Arthur.....D.S.	1	200	1	200	New	Jan. 9, '45			
Rosslyn.....D.S.	3	333	1	1,000	New	Jan. 3, '45			
NORTHERN ONTARIO PROPERTIES									
Timiskaming District									
Hollinger.....T.S.	6	3,500	1	21,000	Holl'g'r Gold Mines	May 7, '45			
Sudbury District									
					Sudbury D.S. No. 1	Jan. 1, '45	7	1,000	Sold to Sudbury H.E.C.
					Sudbury D.S. No. 2	Jan. 1, '45	3	1,000	Sold to Sudbury H.E.C.
Sudbury.....D.S. No. 3	3	333	1	1,000	New	Aug. 14, '45			
Rainy River District									
Atikokan.....D.S.	3	150	1	450	Rosslyn D.S.	Feb. 3, '45			

TOTAL MILEAGE OF TRANSMISSION LINES AND CIRCUITS

System and voltage	Kind of structures	Line route or structure miles			Circuit miles
		Total to Oct. 31, 1944	Additions 1945	Total to Oct. 31, 1945	Total to Oct. 31, 1945
SOUTHERN ONTARIO SYSTEM					
Niagara division					
220,000-volt.	steel	1,025.12	.....	1,025.12	1,069.97
110,000-volt.	"	812.22	.....	812.22	1,400.95
110,000-volt.	wood	111.98	.....	111.98	113.81
90,000-volt†.	steel	65.85	.....	65.85	120.81
60,000-volt†.	"	35.23	.....	35.23	35.57
60,000-volt.	wood	3.03	*2.78	0.25	0.25
26,400-volt.	"	878.16	5.85	884.01	1,057.28
13,200-volt.	"	252.80	*0.10	252.70	320.35
13,200-volt.	steel	0.82	.....	0.82	1.64
12,000-volt.	wood	72.39	.....	72.39	91.26
Dominion Power district—44,000 volt..	steel	34.97	.....	34.97	69.94
Dominion Power district—44,000-volt..	wood	39.68	.....	39.68	39.68
Dominion Power district—22,000-volt..	"	28.02	.....	28.02	28.02
Dominion Power district—10,000-volt..	"	14.40	.....	14.40	14.40
Georgian Bay division					
110,000-volt.	wood	25.69	.....	25.69	25.69
44,000-volt.	"	223.42	.....	223.42	250.92
6,600-volt.	"	2.30	.....	2.30	2.30
Seyern district 22,000-volt.	"	110.16	.....	110.16	134.46
Eugenia district—44,000 & 22,000-volt	"	242.08	.....	242.08	308.47
Wasdell district—22,000-volt.	"	82.12	.....	82.12	83.46
Muskoka district—44,000-volt.	"	26.31	.....	26.31	26.31
Eastern Ontario division					
110,000-volt.	steel	163.23	.....	163.23	166.54
110,000-volt.	wood	280.14	56.42	336.56	336.56
44,000-volt.	"	24.33	.....	24.33	24.33
33,000-volt.	"	42.26	0.54	42.80	48.48
Central district, 44,000-volt and less. .	"	502.46	*2.05	465.56	538.64
St. Lawrence district, 44,000-volt. . . .	"	128.29	16.40	144.69	145.07
Rideau district, 26,400-volt.	"	62.48	.....	62.48	62.48
Madawaska district, 33,000-volt.	"	59.10	.....	59.10	59.10
THUNDER BAY SYSTEM					
110,000-volt.	steel	82.12	.....	82.12	164.28
110,000-volt.	wood	178.21	.....	178.21	178.21
44,000-volt.	"	113.81	.....	113.81	113.81
22,000-volt.	"	8.05	.....	8.05	8.05
12,000-volt.	"	1.45	.....	1.45	1.45
NORTHERN ONTARIO PROPERTIES					
Abitibi district—132,000-volt.	steel	362.74	.....	362.74	725.48
Abitibi district—132,000-volt.	wood	190.19	.....	190.19	190.19
Abitibi district—26,400 & 13,200-volt..	"	151.35	.....	151.35	152.36
Sudbury district—110,000-volt.	"	46.23	.....	46.23	46.23
Sudbury district—22,000-volt.	"	61.57	.....	61.57	61.57
Nipissing district—22,000-volt.	"	63.16	.....	63.16	80.04
Patricia district—44,000-volt.	"	343.59	1.51	345.10	345.10
Patricia district—22,000-volt.	"	32.76	.....	32.76	32.89
Rainy River district—110,000-volt. . . .	"	119.81	.....	119.81	119.81
Timiskaming district—110,000-volt. . . .	steel	.....	112.82	112.82	225.64
Timiskaming district—110,000-volt. . . .	wood	.....	74.56	74.56	74.56
Timiskaming district—44,000-volt. . . .	"	.....	247.30	247.30	247.30
Timiskaming district—12,000-volt and 11,000-volt.	wood	.....	100.49	100.49	170.21
Totals.		7,104.08	†610.96	7,715.04	9,513.92

*Removals. †Net Increase. ‡Former T. & N.P. Co. circuits are now used at various voltages ranging from 4,000 volts to 110,000 volts.

NOTE: Circuit miles of 220,000-volt line in the province of Quebec connected to H-E.P.C. lines=103.45. Total 220,000-volt system interconnected circuit miles=1,173.42.

TRANSMISSION LINE CHANGES AND ADDITIONS MADE DURING THE YEAR
ENDED OCTOBER 31, 1945

SOUTHERN ONTARIO SYSTEM

HIGH-VOLTAGE LINES

The 60,000-volt, single-circuit, wood-pole line from Ontario Power transformer station 2.41 miles to Cyanamid transformer station was removed.

The 60,000-volt, single-circuit, wood-pole line from Queenston forebay towers 0.37 mile to Niagara River switching station was removed.

LOW-VOLTAGE LINES

Niagara Division

DUNDAS DISTRICT:—A 26,000-volt line was built from Ancaster junction 2.78 miles to Ancaster distributing station.

LONDON DISTRICT:—A section of the 26,400-volt line from Delaware junction to Mt. Brydges junction 0.06 mile in length was removed by relocation of the line.

ST. THOMAS DISTRICT:—The 13,200-volt line from Aylmer junction to Aylmer distributing station was relocated for 0.25 mile.

A section of the 13,200-volt line from Yarmouth junction to Port Stanley distributing station 0.03 mile in length was removed by relocation of the line.

COOKSVILLE DISTRICT:—A section of the 13,200-volt line from Cooksville Shale junction to The Cooksville Company Limited, 0.10 mile in length, was removed. The sky wire was removed throughout, a distance of 1.22 miles.

KENT DISTRICT:—A section of 26,400-volt line 1.85 miles in length from Prince Albert junction to Como junction was relocated and total mileage reduced by 0.02 mile.

YORK DISTRICT:—A 26,400-volt line was built from Long Branch distributing station 0.36 mile to Neptune Meters Ltd.

HAMILTON DISTRICT:—A 13,200-volt circuit was erected on existing pole lines 2.45 miles and on new poles 0.09 mile from Bartonville distributing station to Stoney Creek distribution station.

FAIRBANK DISTRICT:—A 26,400-volt line was built from Base Line junction 1.34 miles to Island Grove distributing station.

A 26,400-volt line was built from Post Road junction 2.91 miles to Department of Public Works (Sunnybrook Military Hospital) of which 0.95 mile was built for that customer.

THOROLD DISTRICT:—The 12,000-volt line from Thorold transformer station 0.05 mile to Provincial Paper (steam) distributing station was restrung with heavier conductor.

The 12,000-volt line from Provincial Paper (steam) distributing station 0.22 mile to Thorold distributing station was restrung with heavier conductor.

Eastern Ontario Division

A 110,000-volt, single-circuit, wood-pole line was built from Haley switching station 56.42 miles to Defence Industries station (N.R.X.) near Chalk River.

A 33,000-volt wood-pole line was built from Almonte junction 0.54 mile to Almonte station. CENTRAL DISTRICT:—A section 0.03 mile in length was added to the 44,000-volt line from Sidney transformer station to Brighton distributing station by relocation of the line.

The 44,000-volt line from Auburn Switching station 2.08 miles to Peterborough was sold to Peterborough Utilities Commission.

ST. LAWRENCE DISTRICT:—A 44,000-volt line was built from Maxville distributing station 16.4 miles to Plantagenet Springs distributing station.

The 44,000-volt line from Sophia junction 12.12 miles to Phillips junction was rebuilt and the sky wire was removed.

The 44,000-volt line from Phillips junction 0.46 mile to Brockville distributing station was rebuilt and the sky wire was removed.

NORTHERN ONTARIO PROPERTIES

PATRICIA DISTRICT:—A 44,000-volt line was built from Madsen Red Lake Gold Mines Limited station 1.51 miles to Hasaga Gold Mines Limited station No. 2.

COMMUNICATIONS—ALL SYSTEMS SOUTHERN ONTARIO SYSTEM

In the Niagara division of the Southern Ontario system, a new four-circuit open-wire telephone pole line was constructed between the DeCew Falls 66 $\frac{2}{3}$ cycle generating station and Turners junction, a distance of 3.31 miles. Between Allanburg junction and Pelham junction, a distance of 8.02 miles, a new telephone pole line with six circuits was constructed to replace three deteriorated telephone pole lines; and between Pelham junction and Vinemount a telephone pole line with two telephone circuits was reconstructed for a distance of 17.55 miles. One circuit between Ancaster junction and Ancaster distributing station was erected on the newly constructed 26,400-volt pole line; and single telephone circuits were erected between Stoney Creek distributing station and Saltfleet R.P.D. office, a distance of 1.19 miles, and from Base Line junction to Island Grove distributing station for 1.34 miles.

Two permanent private branch exchanges consisting of 15 lines each were installed in the Power Supervisor's office at the Administration building; and at Frontenac transformer station in the Eastern Ontario division two private branch exchange turrets consisting of seven and eight lines respectively were installed in the station control room and the operators' residence at Frontenac.

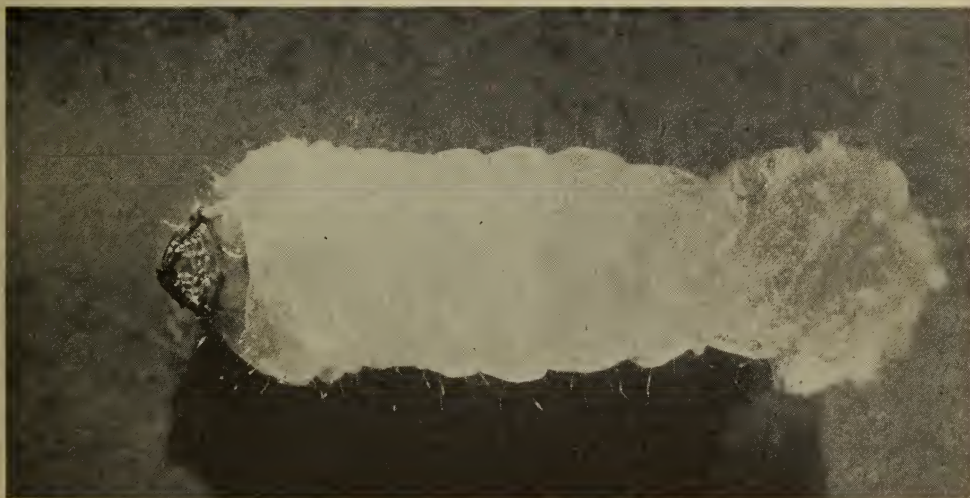
At the Toronto-Strachan transformer station the telephone equipment was transferred to the new telephone room and new cables were installed. Carrier telephone terminals were placed in operation at the Niagara transformer station and Toronto-Strachan transformer station to provide a direct telephone communication channel between the Power Supervisor's office at the Administration building and the district load supervisors at Niagara Falls. In addition a four-channel telemetering telephone carrier system was installed between Niagara Falls and the Power Supervisor's office in Toronto to provide the necessary channels for remote indication of power system data to be made available to the new Power Supervisor's organization at Toronto.

NORTHERN ONTARIO PROPERTIES

Timiskaming District

In the Timiskaming district of the Northern Ontario properties, a new three-circuit telephone pole line was constructed for a distance of 1.75 miles between Indian Chutes generating station and the trunk telephone line between Schumacher and Elk Lake to provide improved inter-connection facilities between the New Iiskeard and Schumacher districts.

A private branch telephone exchange together with revised protective equipment was installed at Schumacher transformer station to provide interchange telephone facilities with the Commission's system in the Timmins area. At Indian Chutes generating station a five-line private branch exchange along with suitable protective equipment was installed to provide improved telephone service for system operation.



AN ENEMY OF WOOD POLES

This pine borer, showing head and nippers with which it eats paths through solid wood, was found by a field inspector in a pole submitted for power line construction. Poles which have been attacked by these borers are not acceptable for the Commission's use. In 1945 nearly sixty thousand red pine and jack pine poles were utilized by the Commission after being rigidly inspected and subsequently pressure treated with preservatives. Magnification 10 times

DISTRIBUTION LINES AND SYSTEMS

IN RURAL POWER DISTRICTS

The following summary shows the mileage of distribution lines constructed by the Commission in rural power districts and the number of consumers served.

The summary indicates a total net increase in construction during the year of 1,132 miles of new primary line completed and service given to 12,342 additional consumers.

SUMMARY OF CONSTRUCTION IN RURAL POWER DISTRICTS

System and division or district	At October 31, 1944		At October 31, 1945					
	Miles of primary line constructed	Number of consumers receiving service	Miles of primary line			Number of consumers		
			Constructed	Under construction or authorized	Total	Receiving service	Authorized	Total
SOUTHERN ONTARIO SYSTEM								
Niagara division....	11,953	88,823	12,419	306	12,725	95,679	1,283	96,962
Georgian Bay division.....	3,093	19,768	3,411	175	3,586	22,698	682	23,380*
Eastern Ontario division.....	4,762	30,420	5,082	246	5,328	32,532	1,038	33,570
THUNDER BAY SYSTEM	290	1,506	301	1	302	1,592	11	1,603
NORTHERN ONTARIO PROPERTIES								
Abitibi district.....	57	253	66	7	73	297	24	321
Manitoulin district..	162	1,012	165	2	167	1,099	9	1,108
Sudbury district....	31	1,477	34	3	37	1,645	0	1,645
Nipissing district...	89	959	91	0	91	1,018	1	1,019
Totals.....	20,437	144,218	21,569	740	22,309	156,560	3,048	159,608

*Includes Caledon Electric as a system consumer.

SECTION VIII

RESEARCH—TESTING—INSPECTION

PRODUCTION AND SERVICE

WITH the cessation of hostilities in Europe and Japan, the activities of the Laboratories toward the war effort ended quickly and about one-third of the staff was transferred from war work to the many pressing research problems of the Commission that had been deferred during the war years. Work was expanded in many fields, including grounding, insulation, electronics, stress analysis, and the treatment of wood poles. A new domestic hot water tank was developed and a new type of heating element designed which simplifies maintenance and gives increased efficiency.

The Commission's post-war programme has also been responsible for much new work. Field surveys for the purpose of locating suitable sources of concrete aggregate have been carried out in several places where major construction projects are planned. Existing structures have been inspected and tested to obtain data on service behaviour as a guide to future design and construction. New materials and methods developed during the war are being studied to determine whether they can be usefully applied in the Commission's work.

The Hydro undertaking of Ontario is greatly benefited by the efforts of engineers and scientists everywhere who contribute to the world's scientific knowledge. The scientific staff of the Commission recognizes its obligation to add something to this knowledge and the Commission encourages its staff to participate actively in the work of scientific societies, standardizing organizations and other bodies by the presentation of papers, the contribution of scientific data and the preparation of standard specifications.

Factory inspection and witness testing included a large turbine and generator for extension of one of the power plants, a large synchronous condenser for another location, power transformers over a very wide range of capacity, oil circuit breakers and other equipment for erection in the field. Checking of quality of materials and fitting of parts before assembly is a very important part of this work.

The Approvals Laboratory, acting as agent of the Canadian Standards Association, has continued the testing of domestic appliances and fittings and has co-operated with the Electrical Inspection department for protection against electric shock and fire hazard to reduce accidents to a minimum in the Province.

The machine shop and garage at the service building maintained in good condition the large fleet of trucks used by the Commission throughout Ontario. The volume of work increased during the year.

RESEARCH AND TESTING LABORATORIES

Research

The Laboratories are involved in study of all research problems of the Commission and carry on all testing in connection with investigations. The Main Research Committee, consisting of five department heads, deals with general matters and institutes research studies. The actual research work is conducted, both in the Laboratories and in the field, by subcommittees, each prepared to study certain specific problems for which solutions are desired by the Commission or by a municipality.

Electrical Insulation

Direct current was used in several cases to locate cable faults. This technique is valuable for certain types of installation.

A direct current insulation tester was constructed using rectifier tubes and having a voltage range up to 5,000 volts with a maximum short circuit current of 20 milliamperes. This equipment will supplement the megger for testing insulation.

Power factor tests were made in the Laboratories on various apparatus and plans are being prepared for a field testing program on a substantial scale.

Instruction on the application of the gradient method of testing apparatus bushings was given to members of the Operating staff in the field.

The cause of failure of some suspension insulators in the field was investigated.

The use of impulse testing was advanced and a high voltage, high speed electronic oscillograph was ordered to supplement this work.

The installation of magnetic links at Burlington transformer station was greatly extended and useful records of surges caused by lightning were obtained.

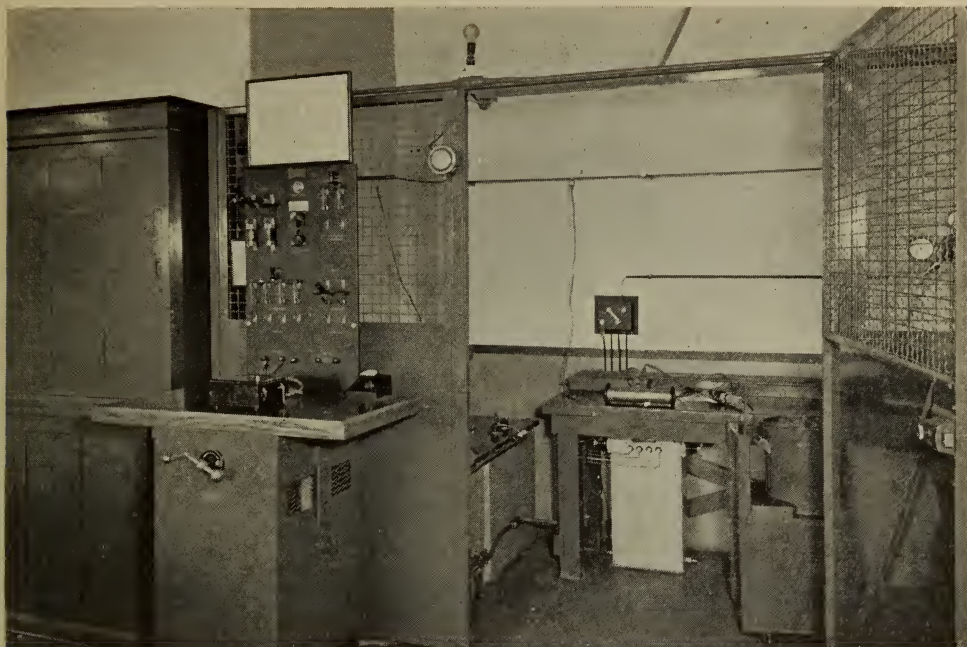
Studies and tests were continued to contribute data on test methods for insulating oils for the Committee of the American Society for Testing Materials.

Vibration of Line Conductors

The study of problems associated with the vibration of line conductors and the development of methods and equipment to eliminate mechanical failure due to fatigue have been the chief activities of a special committee of engineers for many years. During the past year this committee was less active as a result of the success of the investigations and methods adopted in past years.

Fatigue tests were made on three sizes of hard drawn copper and one high-strength copperweld wire conductor. These tests have suggested a modification in the material specification for wire.

A report was prepared entitled: "Fatigue Strength Requirements for Galvanized Steel Ground Wire Strand" which indicates the desirability of a revision in the present ground wire strand specification to include fatigue limit requirements.



HIGH-VOLTAGE TESTING OF INSULATED WIRE AND CABLE
Flexible transformer equipment, smooth hand control, 550 to 46,000 volts

Treatment of Wooden Transmission Structures

In co-operation with the Canadian Forest Products Laboratories, strength tests were made on a number of jack pine poles infected with Red Heart, a disease caused by a fungus, *Trametes pini*, and affecting many strands of timber which otherwise would be suitable for pole line construction. This work was done with a view to promoting the efficient utilization of the timber resources of the Province.

Special laboratory equipment was constructed for the purpose of studying the effects of fungi on various preservatives. The Canadian Forest Products Laboratories supplied standard cultures of two common varieties of fungus. These were propagated in agar jelly to provide sufficient inoculum for the studies.

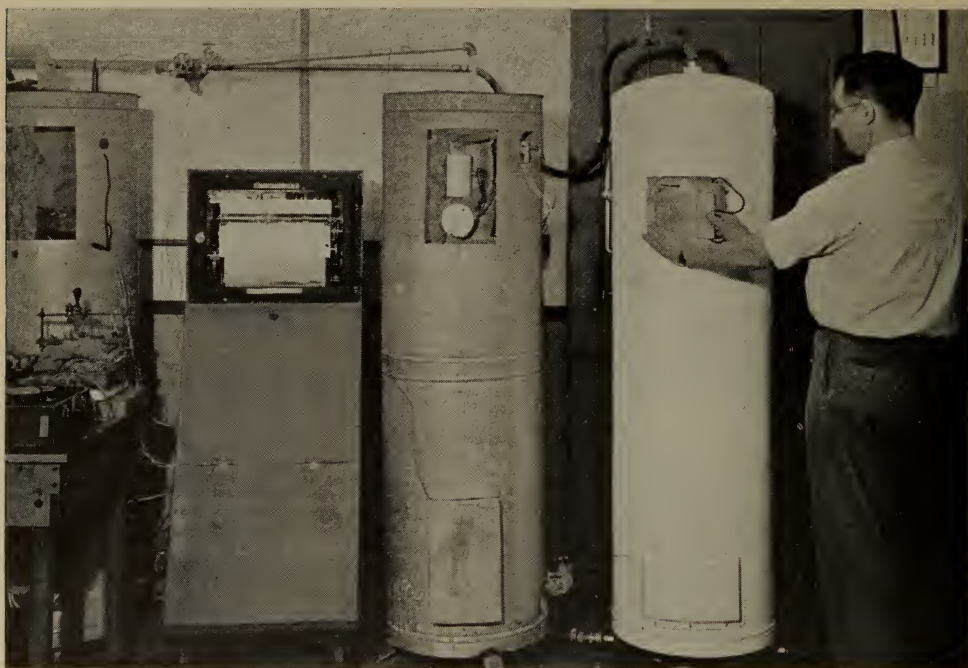
Several hundred poles were inspected in the field to determine the effect of different preservatives and methods of treatment. This work included the pole test plot at Barrie and the 44-kv power line in the Patricia district from Ear Falls generating station to Hudson.

Domestic Hot Water Tanks and Heaters

Studies were continued with a view to increasing the service life of hot water tanks and heaters and to prepare plans and designs for new flat-rate heater installations.

The sixth annual inspection of the experimental tanks operating under domestic service conditions at York station found very little change in the past year, the rate of deterioration now being very slow.

The investigation by accelerated tests of the quality of galvanizing on iron and steel was continued on specimens submitted by a manufacturer.



DEVELOPMENTS IN DOMESTIC WATER HEATING EQUIPMENT

The new water heater developed by the Laboratories with improved appearance, increased efficiency shown by extensive laboratory tests, and readily replaceable heating elements, is at right, with present standard tanks at left. The new design can be completely assembled and tested in the factory to simplify installation, and elements of various ratings may be used in the double-element flat-rate method of connecting heaters

A series of corrosive tests, under city water pressure and at various elevated temperatures, was conducted on plain iron cut from a used tank, on aluminum, on new galvanized iron and on glass-enamelled iron which showed a decided loss in gloss.

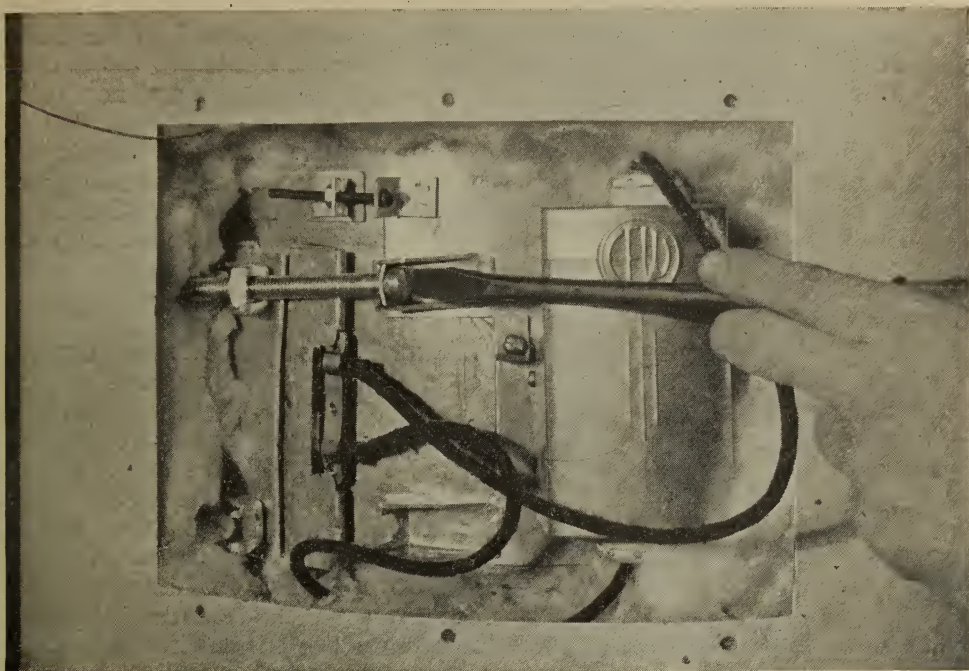
Microscopical studies were made on tank steel samples supplied by the Toronto Hydro Electric System and on an anodized aluminum tank from Arvida, Quebec.

Tank design was studied in regard to heat damage where the bottom is welded to the cylinder.

Substantial progress was made on the development of a flat-rate water heater arrangement designed for quick recovery of water temperature without the use of a booster heater. The new strap-on heater element improves the efficiency of the system at moderate cost and is readily removed to insert a new element or one of higher power without removal of the tank casing and thermal insulation. Specifications for a new type of hot water tank were prepared. A complete water-heater assembly is being designed to be factory-built, shipped and installed as a packaged unit.

Illumination

The characteristics of both hot and cold cathode fluorescent tubes were studied with a view to recommending suitable illumination equipment and satisfactory arrangement of luminaires to municipalities for solution of their consumers' lighting problems.



This new strap-on type of element, as seen through the opening in the cover of the tank, requires only a screwdriver to remove and replace with larger element, without disturbing any of the thermal insulation

Studies of school classroom lighting were continued and reports prepared on semi-direct lighting, indirect lighting, blackboard illumination, fluorescent fixtures and suitable spacing of fixtures.

Masonry Materials

Study of the thermal and structural behavior of Barrett Chute dam was continued to determine the seasonal trends at the point of observation. The information obtained may provide assistance in planning future hydraulic structures.

A search for internal cracks at Barrett Chute dam was made by measuring the velocity and intensity of waves set up in the dam by standardized impulses. An electronic interval timer, capable of measuring in the millisecond and micro-second ranges, was developed at the Laboratories for use on such concrete structures.

The study of deterioration of cement in storage which has progressed through a number of years was completed and a report prepared on the aging of cement.

Measurements were made to determine the effect of certain properties of cements upon the appearance of concrete.

Geophysical methods for the location of aggregate deposits and the investigation of foundation conditions were studied. Equipment was constructed and assembled and measurements were made at fourteen places where the results could be checked by drilling and excavation. Seismic principles also were employed to determine the distance to solid rock, and this method gave promise of being very useful.

Paints and Protective Coatings

A special committee studies the quality of paints required by the Commission and investigates new materials and formulated paints.

This committee revised the Hydro standard color chart and new color cards were prepared and put into use.

A number of tests were conducted on non-slip paints to reduce the hazard of workmen on the running boards of trucks. A suitable paint was recommended and has been used successfully for several months.

Black exterior transformer finishes were tested and a product was found with a longer life than those previously used.

Petroleum Products

A committee studies lubricating oils and greases as well as electrical insulating oils, all of which the Commission uses in very large quantity.

In co-operation with the American Society for Testing Materials, extensive tests were made to determine the relative accuracy of various procedures for measuring the dielectric strength of transformer oil. A second co-operative investigation in which many other large public utilities also are participating is a study of the deterioration of insulating oils in service.

Study of test results on most of the insulating oils in the Niagara division resulted in improved procedure for the valuation of used insulating oil.

A study was started to determine the most suitable additives to use in lubricating oil to obtain the particular properties desired in the finished oil, standard tests for valuating mineral oils not being applicable when additives are used.

Welding

Under the guidance of the committee on welding, satisfactory work was done in repairing by metal spray a discharge ring in the Hanna Chute turbine and guide vanes and a shaft at Eugenia generating station. Bronze welding on bronze runners also was successful.

Electronic Applications

Some important electronic problems were solved in designing special relays and amplifiers for operating oscillographs. The characteristics of coaxial cables were studied and tests were made by newly developed methods which gave a higher degree of accuracy.

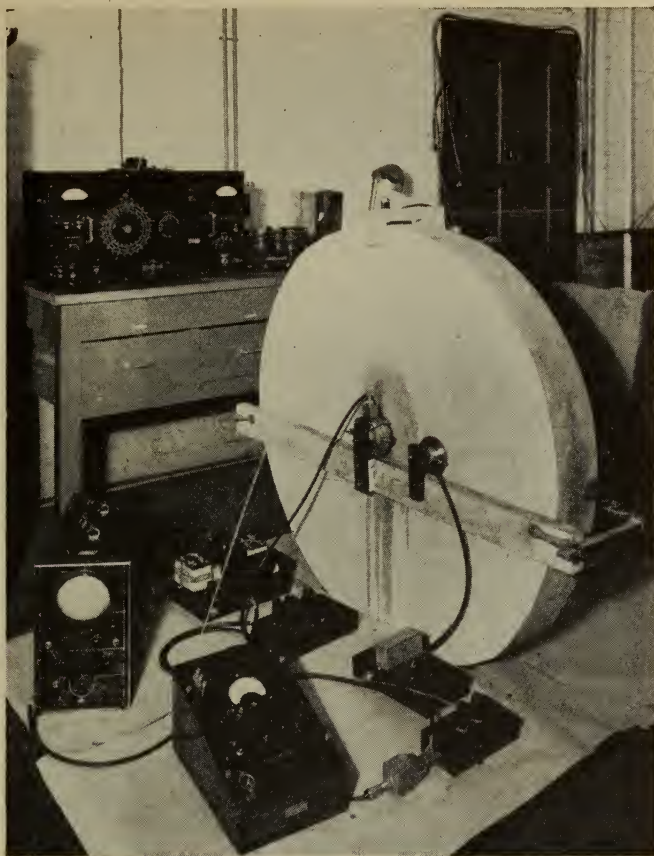
Grounding

The resistance of electrical grounds by galvanized and ungalvanized rods has received further attention and methods of improving protection to operators of air-break switches have been studied from test results with grounded galvanized gratings.

An investigation of electrical circuits on farm premises was started with a view to eliminating any hazards found. An extensive program has been planned including line surveys, lightning surveys, grounding and other tests under abnormal loads and fault conditions.

Routine Testing, Materials and Equipment Inspection

The Laboratories do a large amount of routine testing of materials and various types of equipment, and inspect, at the factories, power equipment being built for the Commission and for the municipalities. These services



LOCATING CRACKS IN CONCRETE

Electrical equipment for studying the attenuation of high frequency sound waves. An endeavour is being made to employ the echo-ranging principle for the detection and locating of cracks in mass concrete. This method resembles those used in the recent war for locating submerged submarines

aim to insure highest quality in material and workmanship in the equipment together with suitable operating characteristics, reliability in service and minimum expense for maintenance.

Electrical Equipment

Acceptance tests were supervised and witnessed on one 15,000-kva. generator, unit No. 4, in Alexander generating station. This generator had been inspected during manufacture together with metal clad switching equipment and panels for its control.

Inspection during manufacture and final electrical witness tests were made on 100 power transformers of various ratings up to 20,000 kva., the total capacity tested being 129,815 kva., also 9 oil circuit breakers with total capacity of 447,300 kva, and 42 air-break disconnecting switches, totalling 3,654,500 kva.

Distribution transformers of all sizes have been inspected at the factories; the total quantity was 4,317, almost twice the number tested in the previous year. Nearly 200,000 line and bus insulators were inspected.

Routine tests in the Laboratories were made on 5,205 pairs of linemen's rubber gloves and on 1,880 samples of insulating oil. Special tests were made on 757 samples of oil. A total of 1,413 instrument and distribution transformers were tested, and also 7 motors. Sixty-five thermostats were tested. A total of 1,435 insulators were given flashover tests, 1,604 watt hour meters were repaired, and 161 indicating instruments were calibrated.

Mechanical and Structural Equipment

Important items in mechanical inspection of equipment were for generating and transformer stations.

For Alexander development, a 19,000 horsepower hydraulic turbine and 15,000 kva. generator were inspected together with two head gates and hoists, two stop-log winches and a sump pump.

For DeCew generating station, inspection included an emergency gate, a rack follower, and head works and tail race gantry cranes.

For Essex condenser station, a 40,000 kva. synchronous condenser and a 5 ton crane were inspected.

In addition to these items, turbine shaft forgings for Coniston, eight replacement runners for the Toronto Power Company plant, and 780 torsional vibration dampers were examined.

The tanks for all power transformers and oil circuit breakers were inspected for welding, and also 40 welded tanks for a transformer manufacturer.

Concrete

Three resident concrete inspectors with three other inspectors and assistants supervised the placing of concrete on construction projects at Alexander generating station and Essex transformer station, and also some concrete work done at Burlington transformer station. These inspectors test the aggregates, check the quality of concrete and supervise the placing of concrete.

Field surveys were made at three sites in search of suitable concrete materials for proposed construction.

X-Ray and Microscopical Examinations

The X-ray laboratory has been active and has given assistance to government departments in examination of castings.

Radio-graphic inspection was made on 26,464 light metal castings and 1,740 plastic parts.

Transmission Line Materials

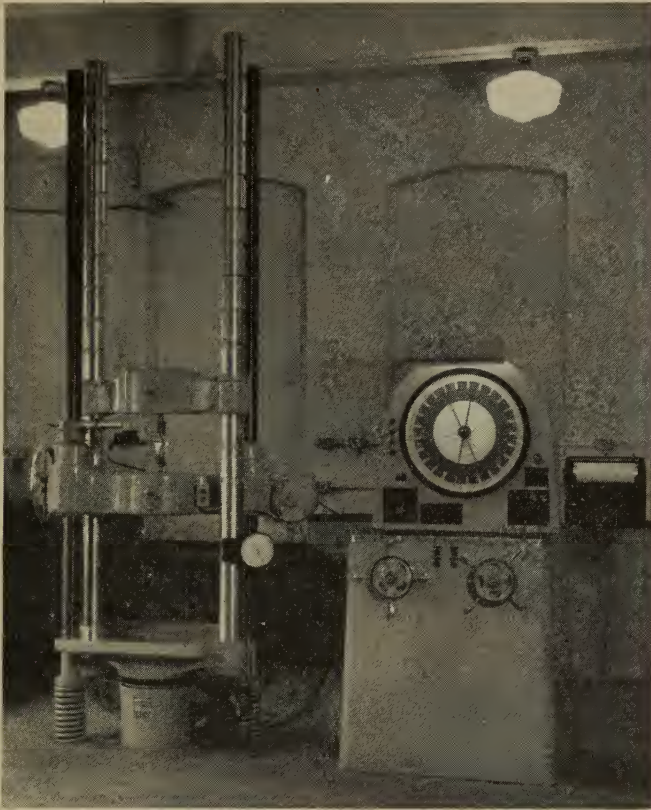
Transmission line materials that pass through Strachan Avenue stores are inspected at the Laboratories. These include cross arms, brackets, insulator pins, clamps, general hardware, wire and cable. Copper wire and cable galvanized steel cable, and steel-reinforced aluminum cable amounted to 1,746 tons through the year.

Steel and Timber

Structural and reinforcing steel for new installations, 532 tons, was inspected. A total of 69,395 pine and cedar poles were examined for use in extension of distribution systems.

Chemical Testing

Chemical tests were made on 123 samples of paints and substitutes used by the Commission on construction projects. These were regular routine



UNIVERSAL TESTING MACHINE

New equipment, with capacity of 120,000 pounds, for determining tensile and compressive strength of materials and mechanical devices and assemblies. As shown, a tensile test is being made on a standard metal specimen with extensometer attached to indicate stress and resultant strain

tests to insure good lasting qualities and suitable colors. Accelerated aging tests are made on the weatherometer at the Laboratories and serve as a guide in determining the life of this paint and its protective value.

Lamps and Lighting Equipment

The number of lamps examined and tested increased nearly fifteen percent over last year, the total being 82,501, and life tests were made on 4,450 lamps.

New Equipment

For the most of the year 1945, the Laboratories were restricted by war limitations and post-war shortages in the purchase of equipment. Some items were obtained however, and parts for other devices designed and built for special use.

A strain indicator was purchased for use with the resistance type strain gauge, a 200 inch-pound impact testing machine for plastics, and a Tungar battery charger.

A motor drive was completed for the 20,000 lb. Olsen compression testing machine, also a load maintainer to hold load on a specimen in this machine within very close limits for an indefinite period of time. A strain dynamometer was designed and constructed. A device was built for detecting nails in logs before being run through the sawmills, and equipment completed for testing cracks in concrete. A load unit was designed for conditioning soil samples for shear tests, and alterations were made in the wire testing machines.

Specification and Committee Work

Members of the staff of the Laboratories represented the Commission at meetings and conferences of the following organizations, assisted in preparation of specifications, and were active otherwise in committee work. Canadian Standards Association, National Research Council, Canadian Electrical Association, Engineering Institute of Canada, American Institute of Electrical Engineers, American Concrete Institute, American Society for Testing Materials, Canadian Manufacturers Association, Canadian Radio Technical Planning Board, Canadian Institute of Mining and Metallurgy, Ontario Municipal Electric Association, Association of Municipal Electrical Utilities, Illuminating Engineering Society, Dept. of Munitions and Supply, Wartime Bureau of Technical Personnel, Wartime Labour Relations Board, Wartime Prices and Trade Board, Dominion Board of Fire Underwriters, International Association of Electrical Inspectors.

APPROVALS LABORATORY

Acting as agent of the Canadian Standards Association, this laboratory takes care of the approvals testing and factory re-examination of electrical equipment manufactured for sale in Canada, including products from the United States.

The number of applications for approval of appliances was nearly two and a half times as many as in the previous year. This increase was most pronounced in the radio and sound devices although the other appliance groups were very much larger.

The volume of electrical equipment and material inspected was much greater than in the previous year, the increase in number of labels sold being about 56 per cent., while the amount of wire, cable and conduit inspected increased 31 per cent. These figures indicate a definite return to production for civilian consumption.

In order to take care of this large increase in business, it was necessary to enlarge the testing facilities and to increase the number of the testing personnel.

Meetings of the Approvals Administrative Board, Approvals Council, Canadian Electrical Code Committees, Part I and Part II, CSA Committee on Electric Range Switches and others were attended by the Approvals engineer.

Canadian Electrical Code

The work associated with the Canadian Electrical Code on Electrical Installations includes attendance at meetings of the Central Committee and issuing of interim revisions and interpretations. The work on Approvals

Specifications for Electrical Equipment covers the preparation of draft specifications and interim revisions of published specifications, and also requires attendance at meetings of the committee. The work on Radio Interference includes preparation of drafts of sections of specifications to insure good practice in means of suppressing radio interference and also attendance at meetings of the Committee and at meetings of panels and subpanels of the Main Committee.

As a result of recent additions to the staff more time is being devoted to specification work.

ELECTRICAL INSPECTION

The volume of work relating to the inspection of electrical wiring and equipment installations throughout the Province, showed a decided increase.

Statistical

A total of 108,234 permits was issued, an increase of 24,871, or 29.8 per cent. Inspections numbered 175,935, an increase of 25,975, or 17.3 per cent. The graph following shows the number of permits issued and inspections made since the department was organized in 1916.

Fires attributed to Electricity

Every year, numerous investigations are made of fires purported to have originated through defective wiring or equipment. In only three instances, this year, could it be proved that the fires were of an electrical origin. The causes, in brief, were, two grounds in armoured cables and a flat iron left on and unattended. There were, possibly, other fires due to electrical causes, but direct evidence was destroyed by fire.

Electrocutions and Fatal Accidents

Four persons were accidentally electrocuted through contact with electrical wiring or equipment. One man touched a bare spot in a portable cable, circuit potential 575 volts; another man entered a prohibited area and came into contact with equipment operating at a potential of 8,000 volts; a woman was electrocuted when a defective cord came into contact with the frame of a washing machine and a child touched a live conductor underneath the house in which it lived. In the last two cases the circuit potential was less than 125 volts.

Accidents—Cattle

Eight cows were electrocuted in a stable when a defective armoured cable, the armour of which was alive, fell across a stanchion support. Circuit potential, 120 volts.

Ground Tests

A total of 2,526 tests were made of consumers' artificial ground electrodes in rural areas, an increase of 176 tests over last year.

Infractions of Regulations

Eleven persons or companies were prosecuted for various infractions of the rules and regulations governing the installation of electrical wiring and equipment.

Special Inspection of Equipment

Six hundred and eighty-two applications were received from manufacturers and distributors of electrical equipment for approval of one or more devices not listed as approved by the Canadian Standards Association.

Reports were made on 719 applications for special inspection of equipment.

Canadian Electrical Code

Part I of the Canadian Electrical Code is incorporated in The Hydro-Electrical Power Commission of Ontario, Rules and Regulations Governing Electrical Installations and Equipment. These regulations are law in Ontario and are applicable to electrical equipment and installations. The Code is re-issued at more or less regular intervals in order to keep abreast with the changes and advancements in the industry and engineers and inspectors of the Commission take an active part in revisions and re-issuing of the Code.

Part II of the Code includes specifications covering construction details and tests applied to electrical equipment to determine its acceptability from a minimum fire and accident hazard point of view. New specifications are compiled and existing specifications revised from time to time under the sponsorship of the Canadian Standards Association. Engineers and inspectors of the Commission assist in the compilation of new and revising of existing specifications.

Under the Canadian Broadcasting Act, Regulations for Controlling Radio Interference are enforced by the Federal Government. These regulations are applicable to electrical equipment and apparatus and to wiring installations and are therefore of interest to the Commission.

Quite a voluminous set of draft specifications have been prepared under the direction of the Department of Transport of the Federal Government and meetings of committees formed to draft these specifications were attended by engineers and inspectors of the Commission.

PRODUCTION AND SERVICE

The garage was operated through the year on a satisfactory basis, the volume of work done being approximately equal to that of previous years and including the overhauling of 76 trucks, mounting 29 new truck bodies and reconditioning 35 units of gasoline driven equipment for the Construction and Operating departments. In addition, 1,528 orders were completed covering miscellaneous truck repairs.

The systematic inspection and repairing of the Commission's fleet of 395 trucks was continued. The fleet operated a total of 3,241,551 miles which represents an increase of 14.5 percent over the previous year. This increase in truck mileage was due to the growing demand for electrical power necessitating the construction of additional lines and a heavier maintenance programme.

Thirty-six new trucks were purchased, twenty-one of which were replacements and the remaining fifteen were additions to the fleet.

The volume of work in the machine shop and carpenter shop showed an increase of approximately ten per cent over the previous year.

The Commission's direct contribution to the war effort on the Bits and Pieces programme terminated in August. The value of work done during the year approximated \$500,000.

SECTION IX

FINANCIAL STATEMENTS

Relating to

Properties Operated by The Hydro-Electric Power Commission on behalf of Co-operating Municipalities of the Southern Ontario System (Niagara, Georgian Bay and Eastern Ontario Divisions) and the Thunder Bay System,

and to

Northern Ontario Properties Held and Operated by the Commission in Trust for the Province of Ontario, and

The Hamilton Street Railway Company—A Subsidiary of the Southern Ontario System

IN this section of the Report financial statements relating to the activities of The Hydro-Electric Power Commission, segregated into certain distinct divisions, are presented. The first division relates to those activities on behalf of the co-operative municipalities, which are partners in the main Hydro undertaking comprising the Southern Ontario system (Niagara, Georgian Bay and Eastern Ontario divisions), the Thunder Bay system, and Rural Power districts associated with these two systems. The second relates to the administration of the Northern Ontario Properties which are held and operated by the Commission in trust for the Province of Ontario. The third relates to The Hamilton Street Railway Company, a wholly-owned subsidiary of the Southern Ontario system.

Co-operative Systems

In the Foreword to this Report a brief reference is made to the basic principle governing the operations of the Hydro undertaking in supplying electrical service at cost, and to the wholesale and retail aspects of the work. A description is also given of the systems into which the partner municipalities are co-ordinated for securing common action with respect to power supplies, through the medium of The Hydro-Electric Power Commission which, under The Power Commission Act, functions as their Trustee.

Although for the purpose of financial administration the Southern Ontario and Thunder Bay systems are separate units, there is a similarity of procedure with respect to their operation which enables certain financial statements, as for example the various reserves, to be co-ordinated and presented in summary tables.

The first set of tables in Section IX gives collective results for the co-operative activities related to the two systems. These tables include a **balance sheet**; a **statement of operations** as detailed in the "cost of power" tables referred to below; schedules respecting **fixed assets**, **capital expenditures and grants**—**rural power districts**, **account with the Provincial Treasurer of the Province of Ontario**, **funded debt issued or assumed**, **power accounts receivable**, **renewals reserves**, **contingencies and obsolescence reserves**, **stabilization of rates reserves** and **sinking fund reserves**.

The tables which follow these general financial statements relate more particularly to the individual municipality's aspects of the wholesale activities of the Commission and for each system show the **cost of power** to the individual municipal utilities, the **credit or debit** adjustment remaining at the end of the fiscal year, and the **sinking fund** equity that has been acquired by the individual municipality. There is also included for each system a **rural operating** statement.

The charges for power supplied by the Commission to the various municipalities vary with the amounts of power used, the distances from the sources of supply and other factors. The entire capital cost of the various power developments and transmission systems is annually allocated to the connected municipalities and other wholesale power consumers, according to the relative use made of the lines and equipment. In general each municipality assumes responsibility for that portion of property employed in providing and transmitting power for its use,* together with such expenses—including the cost of purchased power if any—as are incidental to the provision and delivery of its wholesale power. The annual expenses and the appropriations for reserves are provided out of revenues collected in respect of such power, through the medium of power bills rendered by the Commission. The municipalities are billed at an estimated interim rate each month during the year and credit or debit adjustment is made at the end of the year,† when the Commission's books are closed and the actual cost payable by each municipality for power taken has been determined.

Included in the municipality's remittance to the Commission for the wholesale cost of power—besides such current expenses as those for operation and maintenance of plant, for administration, and for interest on capital—are sums required to build up reserves for sinking fund, for renewals, and for contingencies and obsolescence. The first-mentioned reserve, namely, sinking fund, is being created on a 40-year basis for the purpose of liquidating

*Subject to maximum rate; see footnote on page 138.

†The financial year for the Commission ends on October 31. The financial year for the municipal electric utilities however, ends on December 31, and the municipal accounts are made up to this date, and are so recorded in Section X.

capital liabilities. The other reserves are, respectively, being created to provide funds for the replacing or rebuilding of plant as it wears out; to enable the undertaking to replace existing equipment with improved equipment as it becomes available through advances in science and invention, and to meet unforeseen expenses which from time to time may arise.

The ultimate source of all revenue to meet costs—whether for the larger operations of The Hydro-Electric Power Commission or for the smaller local operations of the municipalities—is, of course, the consumer. Out of the total revenue collected by each municipal utility from its consumers for service supplied, only an amount sufficient to pay the wholesale cost of power supplied by the Commission as outlined above is remitted to the Commission; the balance of municipal electrical revenue is retained to pay for the expense incurred by the local utility in distributing the electrical energy to its consumers.

Tabular Data

The following comments relate to the tabular data presented:

Balance Sheet.—The first tabular statement given in Section IX is a balance sheet showing the assets, and the liabilities and reserves of the co-operative systems.

Statement of Operations.—This statement is a summary of operating expenses and fixed charges as shown in the “cost of power” tables and rural operating statements relating to the individual systems as referred to more particularly below.

Fixed Assets.—Details are given concerning the various fixed assets of each system and of the miscellaneous properties, showing in separate classifications the values of plant under construction and in service, depreciable and non-depreciable and supplemented by a statement showing expenditures, adjustments and retirements occurring during the year.

Capital Expenditures and Grants—Rural Power Districts.—This schedule gives summary information respecting the total capital expenditures on rural power districts and grants-in-aid of construction paid or payable by the Province with respect to such rural districts.

Account with the Provincial Treasurer.—This schedule lists, both for the systems operated on a cost basis, and for the Northern Ontario Properties which are held and operated by the Commission in trust for the Province, the advances from the Province of Ontario and the repayments which have been applied to reduce this liability. It should be noted that Provincial advances to finance Northern Ontario Properties are shown in memorandum form only on the balance sheet of the Commission as the direct liability is carried on the Northern Ontario Properties’ balance sheet.

Funded Debt Issued.—This schedule presents a complete list of the outstanding securities issued by the Commission on account of the systems, and the Northern Ontario Properties. It should be

noted that securities issued to finance Northern Ontario Properties are shown only in memorandum form on the balance sheet of the Commission, whilst the direct liability is shown on the balance sheet of the Northern Ontario Properties.

Power Accounts Receivable.—This schedule sets forth the amounts collectable from all classes of power consumers and includes the annual adjustment figures from the “credit or charge” statements for municipalities. The amounts of debit balances three months or more overdue are stated.

**Renewals Reserves,
Contingencies and Obsolescence Reserves, and
Stabilization of Rates Reserves.**

These schedules show the provisions made to, the expenditures from, and the balance to the credit of, these reserves for each of the systems and other properties included in the power undertakings operated on a cost basis.

Sinking Fund Reserves.—This schedule summarizes the appropriations of principal and interest with respect to these reserves for each of the systems and certain other properties.

Following these statements, which are common to all systems, there are given for each of the co-operative systems four tabular statements as follows:

Cost of Power statement, which shows the apportionment to each municipality of the items of cost summarized in Statement of Operations, as well as the apportionment of fixed assets in service listed in the balance sheet and the amount of power taken by each municipality. It should be noted that the cost of power given in this table is the wholesale cost—that is, the cost which the Commission receives for the power delivered from the main transformer stations serving the local utility. In the case of municipal electrical utilities not directly administered by the Commission, the respective costs of power appear in Statement “B” of Section X as “cost of power supplied by H-E.P.C.”

Credit or Charge statement, which shows the adjustments made in order to bring the amounts paid by each municipal electric utility to the actual cost of service.

Sinking Fund statement, which gives the accumulated total of the amounts paid by each municipality as part of the cost of power together with its proportionate share of other sinking funds.

Rural Operating statement, which summarizes for the rural power district of the system the various items of cost, and the revenues received, in connection with the distribution of electrical energy to rural consumers.

Northern Ontario Properties

The statements and schedules respecting these properties which are held and operated by the Commission in trust for the Province of Ontario include the balance sheet, operating account, schedules of fixed assets, renewals reserve, contingencies and obsolescence reserve, and sinking fund reserve. These schedules are similar in form to the corresponding schedules relating to the co-operative systems.

The Hamilton Street Railway Company

This is a wholly-owned subsidiary of the Southern Ontario system of the Commission. A balance sheet and operating statement are presented.

Municipal Utilities

All municipal Hydro utilities have current expenses to meet similar to the expenses of the Commission and have adopted the same financial procedure with respect to their operations. In other words, concurrently with the creation of funds to liquidate their debt to the Commission and to provide the necessary reserves to protect generating, transforming and transmission systems, the municipalities are taking similar action with respect to their local Hydro utility systems.

The balance sheets, operating reports and statistical data appearing in Section X, under the heading of "Municipal Accounts," relate to the operation of local distribution systems by individual municipalities which have contracted with the Commission for their supply of electrical energy. To this section there is an explanatory introduction to which the reader is specially referred.

Auditing of Accounts

The accounts of The Hydro-Electric Power Commission of Ontario are verified by auditors specially appointed by the Provincial Government. The accounts of the "Hydro" utility of each individual municipality are prepared according to approved and standard practice and The Public Utilities Act requires that they shall be audited by the auditors of the municipal corporation.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

FINANCIAL ACCOUNTS

For the year ended October 31, 1945

Relating to Properties operated on a "Cost Basis" for the Co-operating
Municipalities and Rural Power Districts which are supplied with
Electrical Power and Services from the following Properties:

Southern Ontario System

Thunder Bay System

Service and Administrative
Buildings and Equipment

STATEMENTS

Balance Sheet as at October 31, 1945

Statement of Operations and Cost of Power for the year ended
October 31, 1945

Schedules supporting the Balance Sheet as at October 31, 1945:

Fixed Assets—By Systems and Properties

Fixed Assets—Changes during year

Capital Expenditures and Grants—Rural Power Districts

Account with the Provincial Treasurer of the Province of Ontario

Funded Debt Issued or Assumed

Power Accounts Receivable

Renewals Reserves

Contingencies and Obsolescence Reserves

Stabilization of Rates Reserves

Sinking Fund Reserves

Statements for Municipalities Receiving Power under Cost Contracts

**THE HYDRO-ELECTRIC POWER
SOUTHERN ONTARIO AND
BALANCE SHEET AS AT**

ASSETS

FIXED ASSETS:

Southern Ontario System.....	\$310,002,026.44
Thunder Bay System.....	21,603,202.28
Service and administrative buildings and equipment.....	4,299,526.15

\$335,904,754.87

Less: Grants-in-aid of construction:

Province of Ontario—for rural power districts.....	21,569,175.87
--	---------------

\$314,335,579.00

INVESTMENTS:

The Hamilton Street Railway Company (a wholly-owned subsidiary)—capital stock.....	\$ 3,000,000.00
Other investments.....	234,125.00

3,234,125.00

CURRENT ASSETS:

Cash in banks.....	\$ 1,877,646.96
Employees' working funds.....	72,840.80
Sundry accounts receivable.....	557,431.21
Power accounts receivable.....	3,659,581.77
Rural power district grants receivable.....	327,315.69
Interest accrued.....	627,244.85
Consumers' and contractors' deposits:	
Cash deposits.....	\$ 15,839.90
Securities—at par value.....	1,053,399.19

1,069,239.09

Prepayments.....	39,447.79
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8,230,748.16

INVENTORIES:

Construction and maintenance materials and supplies.....	\$ 2,989,820.87
Construction and maintenance tools and equipment.....	860,788.75
Office equipment.....	126,211.07

3,976,820.69

DEFERRED ASSETS:

Agreements and mortgages.....	\$ 15,690.53
Rural district loans.....	1,594.67
Work in progress—deferred work orders.....	434,186.72

451,471.92

UNAMORTIZED DISCOUNT ON DEBENTURES:.....	408,637.17
--	------------

RESERVE FUND INVESTMENTS:

Investments in government and government guaranteed bonds, at amortized cost:	
Employers' liability insurance fund.....	\$1,018,810.91
Pension fund.....	9,934,371.49
Other reserves.....	63,962,296.42

74,915,478.82

\$405,552,860.76

COMMISSION OF ONTARIO

THUNDER BAY SYSTEMS

OCTOBER 31, 1945

LIABILITIES AND RESERVES

LONG TERM LIABILITIES (at par of exchange):

Funded debt.....	\$106,898,000.00	
Less—debentures issued to finance Northern Ontario Properties.....	31,973,200.00	
	<u>\$74,924,800.00</u>	
Advances from the Province of Ontario....	\$94,847,032.76	
Less—advances for Northern Ontario Properties.....	5,576,436.46	
	<u>89,270,596.30</u>	
Purchase agreements.....	41,829.94	
	<u>\$164,237,226.24</u>	

CURRENT LIABILITIES:

Accounts and payrolls payable.....	\$3,214,802.63	
Power accounts—credit balances.....	193,521.67	
Hamilton Street Railway Company—current account.....	1,479,196.64	
Northern Ontario Properties—current account.....	3,580,875.57	
Advances from the Province of Ontario for rural loans.....	1,830.12	
Consumers' and contractors' deposits.....	1,137,522.58	
Debenture interest accrued.....	623,345.57	
Miscellaneous interest accrued.....	1,261.99	
Miscellaneous accruals.....	445,019.72	
	<u>10,677,376.49</u>	
RURAL POWER DISTRICTS—rates suspense, net.....		3,112,586.55

RESERVES:

Renewals.....	\$65,878,723.87	
Contingencies and obsolescence.....	44,010,240.50	
Stabilization of rates.....	17,143,873.90	
Fire insurance.....	153,819.50	
Investment—subsidiary.....	1,528,881.21	
	<u>\$128,715,538.98</u>	
Employers' liability insurance.....	1,374,197.45	
Pension fund.....	10,184,881.24	
Savings and retirement fund.....	203,398.29	
Miscellaneous.....	562,685.75	
	<u>141,040,701.71</u>	

SINKING FUND RESERVE:

Represented by funded debt and provincial advances retired through sinking funds.....	86,484,969.77	
	<u>\$405,552,860.76</u>	

Auditors' Report

We have made an examination of the balance sheet of the Southern Ontario and Thunder Bay Systems of The Hydro-Electric Power Commission of Ontario, as at October 31, 1945 and of the attached statement of operations for the year ended on that date. In connection therewith we reviewed the system of internal control and the accounting procedures of the Commission, and, without making a detailed audit of the transactions, have examined or tested accounting records of the Commission and other supporting evidence by methods and to the extent we deemed appropriate.

We report that in our opinion the foregoing balance sheet and related statement of operations (as more fully reported upon by us to the Lieutenant-Governor in Council) have been drawn up so as to exhibit a true and correct view of the state of the affairs of the Southern Ontario and Thunder Bay Systems of the Commission at October 31, 1945 (subject to the trusts which prevail in respect thereto) and the results of their operations for the year ended on that date, according to the best of our information and the explanations given us and as shown by the books.

CLARKSON, GORDON & CO.

Chartered Accountants.

Toronto, Canada,
June 12, 1946.

**THE HYDRO-ELECTRIC POWER
SOUTHERN ONTARIO AND
Statement of Operations for the**

	Southern Ontario system
	\$ c.
Cost of power:	
Cost of power purchased	10,832,402.63
Operating, maintenance and administrative expenses	6,716,415.39
Interest (including interest on sinking fund, renewals, and other reserves and after deducting interest earned on investments)	10,834,366.33
Provision for renewals	2,179,119.56
Provision for contingencies and obsolescence	10,640,505.26
Provision for stabilization of rates .....	.....
Provision for sinking fund	2,773,912.44
Total	43,976,721.61
Amounts received from or billed against municipalities and other customers:	
Municipalities (at interim rates)	27,760,643.75
Rural power districts	2,568,249.74
Companies	15,292,386.24
Mining area .....	.....
Local distribution system	152,068.18
Rural lines operated by municipalities	92.48
Total	45,773,440.39
Balance, credited or charged to municipalities on annual adjustment of the cost of power:	
Credited	1,797,094.60
Charged	375.82
Net credit	1,796,718.78

COMMISSION OF ONTARIO

THUNDER BAY SYSTEMS

Year Ended October 31, 1945.

Thunder Bay system	Distribution in rural power districts	Elimination of inter-departmental billings	Total
\$ c.	\$ c.	\$ c.	\$ c.
.....	2,586,926.93	2,586,926.93	10,832,402.63
471,028.46	1,517,904.06	.....	8,705,347.91
855,684.95	873,336.43	.....	12,563,387.71
161,347.54	416,858.15	.....	2,757,325.25
566,797.02	.....	.....	11,207,302.28
(48,619.76)	.....	.....	(48,619.76)
197,105.20	222,370.06	.....	3,193,387.70
2,203,343.41	5,617,395.63	2,586,926.93	49,210,533.72
833,995.58	.....	.....	28,594,639.33
18,677.19	5,932,452.68	2,586,926.93	5,932,452.68
961,802.08	.....	.....	16,254,188.32
451,971.46	.....	.....	451,971.46
.....	.....	.....	152,068.18
.....	.....	.....	92.48
2,266,446.31	5,932,452.68	2,586,926.93	51,385,412.45
63,102.90	321,161.27	.....	2,181,358.77
.....	6,104.22	.....	6,480.04
63,102.90	315,057.05	.....	2,174,878.73

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Fixed Assets—October 31, 1945

SOUTHERN ONTARIO SYSTEM

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

Property	Fixed Assets				
	Under construction	In service			Total
		Non- depreciable	Depreciable		
	\$ c.	\$ c.	\$ c.	\$ c.	
POWER PLANTS					
Niagara Division:					
Niagara river:					
Queenston-Chippawa.....	4,182.22	46,696,355.21	28,750,272.79	75,450,810.22	
Ontario Power.....		7,281,151.42	14,443,005.93	21,724,157.35	
Toronto Power.....	59.86	3,823,379.60	7,621,845.92	11,445,285.38	
Ottawa river:					
Chats Falls.....		818,263.01	6,372,273.45	7,190,536.46	
Des Joachims power site surveys.....		246,371.46		246,371.46	
Power sites.....	50,002.00			50,002.00	
Welland canal:					
DeCew Falls.....	172,991.19	6,526,302.30	9,699,186.67	16,398,480.16	
Long Lake diversion.....		256,910.72	620,828.84	877,739.56	
Ogoki diversion.....		2,790,000.00	2,066,062.57	4,856,062.57	
Preliminary river surveys.....		30,242.35		30,242.35	
Georgian Bay Division:					
Muskoka river: (below lake)					
Bala No. 1 and No. 2.....		29,191.00	43,216.77	72,407.77	
Ragged Rapids.....		70,889.49	1,261,109.55	1,331,999.04	
Big Eddy.....		170,467.76	1,123,185.37	1,293,653.13	
Land and water rights.....		17,224.03		17,224.03	
Seyvern river:					
Wasdells.....	123.49	15,302.32	133,342.92	148,768.73	
Big Chute.....		122,540.48	562,596.65	685,137.13	
Beaver river:					
Eugenia.....	9,257.05	142,538.73	1,147,783.46	1,299,579.24	
Saugeen river:					
Hanover.....		10,000.00		10,000.00	
Walkerton.....		100,372.31	117,123.34	217,495.65	
Muskoka river: (above lake)					
South Falls.....		17,932.95	436,728.95	454,661.90	
Trethewey Falls.....		51,549.45	305,718.47	357,267.92	
Hanna Chute.....		33,256.73	207,504.10	240,760.83	
Hollow Lake dam.....		17,629.88	29,540.16	47,170.04	
Sauble river:					
Lands and rights.....		4,200.00		4,200.00	
Miscellaneous.....	3.00			3.00	
Eastern Ontario Division:					
Fenelon river:					
Fenelon Falls.....		60,000.00	89,309.83	149,309.83	
Otonabee river:					
Auburn.....		31,400.00	290,275.05	321,675.05	
Lakefield.....	612.50	19,620.05	215,969.40	236,201.95	
Trent river:					
Heely Falls.....	701.18		1,202,112.81	1,202,813.99	
Seymour.....			315,877.79	315,877.79	
Ranney Falls.....			1,365,566.77	1,365,566.77	
Ranney Falls No. 3.....		18,596.20	54,289.18	72,885.38	

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Fixed Assets—October 31, 1945

SOUTHERN ONTARIO SYSTEM

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

Property	Fixed Assets				
	Under construction	In service			Total
		Non- depreciable	Depreciable		
	\$ c.	\$ c.	\$ c.	\$ c.	
POWER PLANTS—(Continued)					
Trent river:—continued					
Crow river.....		1,000.00			1,000.00
Hagues Reach.....			573,262.30		573,262.30
Meyersburg.....			837,865.91		837,865.91
Sills Island.....		38,679.36	281,426.02		320,105.38
Frankford.....	598.53		252,398.83		252,997.36
Sidney.....			250,996.46		250,996.46
Mississippi river:					
High Falls.....		13,154.84	703,003.83		716,158.67
Carleton Place.....		9,929.06	47,817.10		57,746.16
Galetta.....		20,000.00	127,888.21		147,888.21
Madawaska river:					
Barrett Chute.....		701,031.97	3,815,740.98		4,516,782.95
Calabogie.....		80,825.74	677,329.51		758,155.25
Stewartsville.....	30,087.81				30,087.81
Bark Lake dam.....		609,445.13	794,302.40		1,403,747.53
Kaministeg Lake dam.....		17,962.59	1,795.46		19,758.05
Undeveloped sites.....		470,000.00			470,000.00
Miscellaneous.....	13.00		46,071.28		46,084.28
Intangible.....		2,217,761.29			2,217,761.29
	268,631.83	73,581,477.43	86,884,635.03		160,734,744.29
TRANSFORMER STATIONS					
Niagara Division.....	1,515,284.64		48,631,728.94		50,147,013.58
Georgian Bay Division.....	41,377.90		2,088,884.16		2,130,262.06
Eastern Ontario Division.....	239,689.37	76,296.26	4,631,497.64		4,947,483.27
	1,796,351.91	76,296.26	55,352,110.74		57,224,758.91
TRANSMISSION LINES					
Niagara Division:					
Lines.....	172,852.51		29,530,804.62		29,703,647.13
Right-of-way.....		8,852,416.49			8,852,416.49
Georgian Bay Division.....	61,847.49		2,766,398.47		2,828,245.96
Eastern Ontario Division.....	476,461.86	554,086.03	6,264,800.63		7,295,348.52
	711,151.86	9,406,502.52	38,562,003.72		48,679,658.10
LOCAL SYSTEMS					
Niagara Division.....			109,813.20		109,813.20
Georgian Bay Division.....		8,000.00	214,248.49		222,248.49
Eastern Ontario Division.....		703.00	29,735.10		30,438.10
		8,703.00	353,794.79		362,497.79
Sub-total.....	2,776,135.60	83,072,979.21	181,152,544.28		267,001,659.09

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Fixed Assets—October 31, 1945

SOUTHERN ONTARIO SYSTEM

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

Property	Fixed Assets			
	Under construction	In service		Total
		Non-depreciable	Depreciable	
RURAL POWER DISTRICT	\$ c.	\$ c.	\$ c.	\$ c.
H-E.P.C. investment.....		37,559.97	21,666,082.22	21,703,642.19
Government grants.....			21,295,803.14	21,295,803.14
		37,559.97	42,961,885.36	42,999,445.33
RURAL LINES				
Georgian Bay Division.....			922.02	922.02
	2,776,135.60	83,110,539.18	224,115,351.66	310,002,026.44

	Cost statements	Transfers for cost purposes	Fixed assets as above
	\$ c.	\$ c.	\$ c.
Cost of Power schedules.....	266,863,606.39	138,052.70	267,001,659.09
Rural Operating schedules.....	21,841,694.89	138,052.70	21,703,642.19
Rural Lines schedules.....	922.02		922.02

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Fixed Assets—October 31, 1945

THUNDER BAY SYSTEM

Property	Fixed Assets			
	Under construction	In service		Total
		Non-depreciable	Depreciable	
POWER PLANTS:	\$ c.	\$ c.	\$ c.	\$ c.
Nipigon river:				
Cameron Falls.....	4,824.52	857,418.84	9,057,364.53	9,919,607.89
Alexander.....		76,898.44	6,466,576.28	6,543,474.72
Virgin Falls dam.....		55,450.41	442,436.59	497,887.00
	4,824.52	989,767.69	15,966,377.40	16,960,969.61
TRANSFORMER STATIONS.....	32,493.35	353,615.37	933,873.09	1,319,981.81
TRANSMISSION LINES.....	1,257.58	963,337.24	1,722,883.31	2,687,478.13
LOCAL SYSTEMS.....		88,027.26		88,027.26
Sub-total.....	38,575.45	2,394,747.56	18,623,133.80	21,056,456.81
RURAL POWER DISTRICT:				
H-E.P.C. investment.....			273,372.74	273,372.74
Government grants.....			273,372.73	273,372.73
			546,745.47	546,745.47
	38,575.45	2,394,747.56	19,169,879.27	21,603,202.28

	Cost statements	Fixed assets as above
	\$ c.	\$ c.
Cost of Power schedules.....	21,056,456.81	21,056,456.81
Rural Operating schedules.....	273,372.74	273,372.74

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Fixed Assets—October 31, 1945

ADMINISTRATIVE AND SERVICE BUILDINGS AND EQUIPMENT

Property	Fixed Assets			
	Under construction	In service		Total
		Non-depreciable	Depreciable	
ADMINISTRATIVE BUILDINGS:	\$ c.	\$ c.	\$ c.	\$ c.
Toronto:				
University avenue.....	21,456.61	299,976.33	2,653,020.60	2,974,453.54
Elm and Centre streets.....			113,322.00	113,322.00
	21,456.61	299,976.33	2,766,342.60	3,087,775.54
SERVICE BUILDING AND EQUIPMENT:				
Toronto:				
Strachan avenue.....			586,623.76	586,623.76
1379 Bloor street west.....			50,000.00	50,000.00
Islington service centre.....	2,881.77			2,881.77
Cobourg.....			22,245.08	22,245.08
Hamilton.....		550,000.00		550,000.00
	2,881.77	550,000.00	658,868.84	1,211,750.61
	24,338.38	849,976.33	3,425,211.44	4,299,526.15

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Fixed Assets—October 31, 1945

SUMMARY

System or Property	Fixed Assets			
	Under construction	In service		Total
		Non-depreciable	Depreciable	
	\$ c.	\$ c.	\$ c.	\$ c.
Southern Ontario system.....	2,776,135.60	83,110,539.18	224,115,351.66	310,002,026.44
Thunder Bay system.....	38,575.45	2,394,747.56	19,169,879.27	21,603,202.28
Service and administrative buildings and equipment.....	24,338.38	849,976.33	3,425,211.44	4,299,526.15
	2,839,049.43	86,355,263.07	246,710,442.37	335,904,754.87
Less: Grants in aid of construction—Province of Ontario for rural power districts.....				21,569,175.87
				314,335,579.00

**THE HYDRO-ELECTRIC POWER
STATEMENT SHOWING CHANGES IN FIXED ASSETS**

Class of asset	Balance at beginning of year	Expenditure during year
SOUTHERN ONTARIO SYSTEM		
POWER PLANTS		
Niagara Division:	\$ c.	\$ c.
Queenston-Chippawa	75,470,926.13	9,975.69
Ontario Power	21,724,157.35	
Toronto Power	11,445,617.02	103.01
Chats Falls	7,190,543.10	
Des Joachims	241,277.67	5,093.79
DeCew Falls	16,195,061.11	240,411.23
Ogoki diversion	4,852,152.73	3,909.84
Other properties	957,459.86	524.05
Georgian Bay Division:		
Eugenia	1,290,322.19	9,257.05
Ragged Rapids	1,331,999.04	
Big Eddy	1,293,568.22	84.91
Big Chute	685,137.13	
South Falls	454,661.90	
Trethewey Falls	357,267.92	
Other properties	757,159.00	2,081.05
Eastern Ontario Division:		
Hagues Reach	573,262.30	
Auburn	321,675.05	
Seymour	316,353.92	
Ranney Falls	1,438,167.18	1,142.97
Heely Falls	1,202,112.81	701.18
Meyersburg	837,865.91	
High Falls	718,271.42	
Barrett Chute	4,505,922.51	10,930.44
Bark Lake dam	1,390,628.32	13,119.21
Calabogie	758,455.25	
Stewartsville		30,087.81
Sills Island	321,774.20	829.97
Intangible and undeveloped sites	2,687,761.29	
Other properties	1,161,430.32	1,364.85
	160,480,990.85	329,617.05
TRANSFORMER STATIONS		
Niagara Division	48,728,269.91	1,526,930.57
Georgian Bay Division	2,061,653.73	78,484.40
Eastern Ontario Division	4,654,676.88	392,990.27
	55,444,600.52	1,998,405.24
TRANSMISSION LINES		
Niagara Division:		
Lines	29,505,445.06	224,215.42
Right-of-way	8,833,707.36	26,663.16
Georgian Bay Division	2,755,335.25	61,948.13
Eastern Ontario Division	6,344,013.76	1,001,085.52
	47,438,501.43	1,313,912.23
LOCAL SYSTEMS		
Niagara Division	237,217.69	7,083.69
Georgian Bay Division	106,072.29	116,183.20
Eastern Ontario Division	32,915.21	914.80
	376,205.19	124,181.69
Sub-total	263,740,297.99	3,766,116.21

COMMISSION OF ONTARIO

DURING YEAR ENDED OCTOBER 31, 1945

Adjustment for equipment re-located	Retirements		Balance at end of year
	Values recovered (stores, sales and salvage)	Charged to reserves for renewals and contingencies	
\$ c.	\$ c.	\$ c.	\$ c.
	30,091.60		75,450,810.22
		434.65	21,724,157.35
	6.64		11,445,285.38
			7,190,536.46
			246,371.46
11,934.36	24,841.18	216.64	16,398,480.16
			4,856,062.57
			957,983.91
			1,299,579.24
			1,331,999.04
			1,293,653.13
			685,137.13
			454,661.90
			357,267.92
	1,000.00	210.00	758,030.05
			573,262.30
			321,675.05
		476.13	315,877.79
130.00	16.00	972.00	1,438,452.15
			1,202,813.99
			837,865.91
2,112.75			716,158.67
		70.00	4,516,782.95
			1,403,747.53
		300.00	758,155.25
			30,087.81
		2,498.79	320,105.38
			2,687,761.29
252.00		560.87	1,161,982.30
14,169.11	55,955.42	5,739.08	160,734,744.29
2,016.79	11,686.48	98,517.21	50,147,013.58
10,483.61	1,386.57	18,973.11	2,130,262.06
8,039.61	62,013.56	30,130.71	4,947,483.27
4,460.79	75,086.61	147,621.03	57,224,758.91
41,283.25	6,938.25	60,358.35	29,703,647.13
2,686.73	2,000.00	3,267.30	8,852,416.49
13,503.00		2,540.42	2,828,245.96
12,652.04	743.66	36,355.06	7,295,348.52
39,447.48	9,681.91	102,521.13	48,679,658.10
1,656.00	136,144.18		109,813.20
		7.00	222,248.49
3,686.00	7,079.91		30,436.10
5,342.00	143,224.09	7.00	362,497.79
35,081.16	283,948.03	255,888.24	267,001,659.09

THE HYDRO-ELECTRIC POWER
STATEMENT SHOWING CHANGES IN FIXED ASSETS

Class of asset	Balance at beginning of year	Expenditure during year
SOUTHERN ONTARIO SYSTEM—(Continued)		
RURAL POWER DISTRICT	\$ c.	\$ c.
H-E.P.C. investment.....	20,109,454.05	1,669,339.56
Government grants.....	19,756,058.08	1,614,896.48
	39,865,512.13	3,284,236.04
RURAL LINES		
Niagara Division.....	440.82	.....
Georgian Bay Division.....	922.02	.....
	1,362.84	.....
Southern Ontario system—Total.....	303,607,172.96	7,050,352.25
THUNDER BAY SYSTEM:		
Power plants.....	16,312,608.74	648,360.87
Transformer stations.....	1,257,943.14	70,797.42
Transmission lines.....	2,685,503.76	1,974.37
Local systems.....	86,529.25	1,524.01
Sub-total.....	20,342,584.89	722,656.67
RURAL POWER DISTRICT		
H-E.P.C. investment.....	257,527.51	16,146.30
Government grants.....	257,527.52	16,146.28
	515,055.03	32,292.58
Thunder Bay system—Total.....	20,857,639.92	754,949.25
SERVICE AND ADMINISTRATIVE BUILDINGS AND EQUIPMENT:		
Toronto—University avenue.....	2,944,742.51	62,542.01
—Elm and Centre streets.....	113,322.00	.....
—Strachan avenue.....	574,600.91	12,022.85
Other properties and equipment.....	622,245.08	2,881.77
Total.....	4,254,910.50	77,446.63
Grand total.....	328,719,723.38	7,882,748.13
Less: Grants in aid of construction:		
Province of Ontario for rural power districts.....	20,013,585.60	1,555,590.27
Total fixed assets.....	308,706,137.78	6,327,157.86

COMMISSION OF ONTARIO

DURING YEAR ENDED OCTOBER 31, 1945

Adjustment for equipment re-located	Retirements		Balance at end of year
	Values recovered (stores, sales and salvage)	Charged to reserves for renewals and contingencies	
\$ c.	\$ c.	\$ c.	\$ c.
2,884.10	43,955.71	28,311.61	21,703,642.19
2,884.10	43,955.72	28,311.60	21,295,803.14
5,768.20	87,911.43	56,623.21	42,999,445.33
	440.82		922.02
	440.82		922.02
29,312.96	372,300.28	312,511.45	310,002,026.44
	7,324.80	1,433.95	16,960,969.61
		26.00	1,319,981.81
			2,687,478.13
	7,324.80	1,459.95	88,027.26
			21,056,456.81
		301.07	273,372.74
		301.07	273,372.73
		602.14	546,745.47
	7,324.80	2,062.09	21,603,202.28
29,312.96		3,518.02	2,974,453.54
			113,322.00
			586,623.76
			625,126.85
29,312.96		3,518.02	4,299,526.15
	379,625.08	318,091.56	335,904,754.87
			21,569,175.87
	379,625.08	318,091.56	314,335,579.00

Renewals.....	157,375.75
Contingencies.....	157,301.38
To operation.....	3,414.43

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Capital Expenditures and Grants—Summary at October 31, 1945

RURAL POWER DISTRICTS

Statement showing the Total Capital Expenditures in Rural Power Districts to October 31, 1945; the Grants payable to the Commission by the Province of Ontario in respect thereto; and the amounts paid to the Commission on account of such Grants to October 31, 1945

	Accumulated total to October 31, 1944	Net expenditure during year 1945	Accumulated total to October 31, 1945
	\$ c.	\$ c.	\$ c.
Total capital expenditures less retirements—			
Southern Ontario district.....	39,865,512.13	3,133,933.20	42,999,445.33
Thunder Bay district.....	515,055.03	31,690.44	546,745.47
	40,380,567.16	3,165,623.64	43,546,190.80
Northern Ontario Properties district.....	887,452.59	102,837.15	990,289.74
	41,268,019.75	3,268,460.79	44,536,480.54
Less: Portion of expenditures not entitled to Provincial grant*—			
Southern Ontario district.....	353,395.96	54,443.10	407,839.06
Thunder Bay district.....			
Northern Ontario Properties district.....	61,649.03	22,144.87	83,793.90
	415,044.99	76,587.97	491,632.96
Balance of expenditures less retirements sub- ject to Provincial grants (all districts)....	40,852,974.76	3,191,872.82	44,044,847.58
Grants payable by the Province as authorized by Order-in-Council (50%)—			
Southern Ontario district and Thunder Bay district.....	20,013,585.60	1,555,590.27	21,569,175.87
Northern Ontario Properties district.....	412,901.78	40,346.14	453,247.92
	20,426,487.38	1,595,936.41	22,022,423.79
Amounts paid by the Province to the Commis- sion on account of such authorized grants.	20,460,108.10	1,235,000.00	21,695,108.10
Balance in hands of Commission or (owing by the Province).....	33,620.72	(360,936.41)	(327,315.69)

*Grants not paid by the Province in respect of a summer resort, street lighting systems, service buildings, amounts paid for business already established and one transformer station.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Account with The Provincial Treasurer of the Province of Ontario

As at October 31, 1945

ADVANCES FROM AND REPAYMENTS TO THE PROVINCE OF ONTARIO

	Total	Northern Ontario Properties operated for the Province of Ontario	Southern Ontario and Thunder Bay system operated on a "cost basis"
	\$ c.	\$ c.	\$ c.
ADVANCES FOR CAPITAL EXPENDITURES:			
Cash advances made by the Province to the Commission for capital expenditure purposes during the years 1909 to 1934, inclusive.....	207,250,258.34	8,331,113.46	198,919,144.88
Cash returned by the Commission to the Province on April 30, 1935, to cover the difference between advances made by the Province to the Commission during the year ended October 31, 1934 and the capital expenditures made out of such advances by the Commission in that year.....	247,507.98	74,001.99	173,505.99
Total advances for capital expenditures.....	207,002,750.36	8,257,111.47	198,745,638.89
REPAYMENT OF ADVANCES—1926 to 1933:			
Cash repayments made by the Commission annually to October 31, 1933, in accordance with the 1926 debt retirement plan.....	17,008,616.73	3,061.39	17,005,555.34
Balance of advances at October 31, 1934 (before deducting \$2,412,398.33 on deposit with the Province at that date for debt retirement)....	189,994,133.63	8,254,050.08	181,740,083.55
REPAYMENT OF ADVANCES—1934 to 1945:			
Cash repayments made by the Commission under a new retirement plan, equal to the maturities in the period November 1, 1934 to October 31, 1945, of Province of Ontario bonds allocated as issued for the Commission's purposes—			
Total to October 31, 1944..... \$93,623,218.38			
During the year ended October 31, 1945..... 1,523,882.49	95,147,100.87	2,677,613.62	92,469,487.25
Balance of advances at October 31, 1945.....	94,847,032.76	5,576,436.46	89,270,596.30
Payable in the following currencies:			
Canadian.....	18,323,686.61	633,379.20	17,690,307.41
Sterling.....	71,202.66	768.80	70,433.86
Canadian or United States.....	8,718,026.01	4,799.73	8,713,226.28
Canadian, United States or Sterling.....	67,734,117.48	4,937,488.73	62,796,628.75
	94,847,032.76	5,576,436.46	89,270,596.30

THE HYDRO-ELECTRIC POWER

Funded Debt as at

(Guaranteed as to principal and

Description	Date of maturity	Date of issue
2 ⁰ / ₁₀₀ Debentures.....	Feb. 1, 1946	Feb. 1, 1943
2 1 ¹ / ₂ ⁰ / ₁₀₀ Serial debentures.....	Feb. 15, 1946/49	Feb. 15, 1941
2 1 ¹ / ₂ ⁰ / ₁₀₀ " ".....	May 1, 1946/49	May 1, 1942
3 ⁰ / ₁₀₀ " ".....	Aug. 1, 1946/47	Aug. 1, 1942
1 1 ¹ / ₂ ⁰ / ₁₀₀ Debentures.....	Sept. 1, 1946	Sept. 1, 1944
3 1 ¹ / ₂ ⁰ / ₁₀₀ " ".....	April 1, 1947	April 1, 1937
1 1 ¹ / ₂ ⁰ / ₁₀₀ " ".....	Sept. 1, 1947	Sept. 1, 1944
2 1 ¹ / ₂ ⁰ / ₁₀₀ " ".....	Jan. 1, 1948	Jan. 1, 1943
3 ⁰ / ₁₀₀ " ".....	Aug. 1, 1948	Aug. 1, 1938
2 1 ¹ / ₄ ⁰ / ₁₀₀ " ".....	Sept. 1, 1948	Sept. 1, 1943
2 1 ¹ / ₂ ⁰ / ₁₀₀ " ".....	Feb. 1, 1949	Feb. 1, 1943
2 ⁰ / ₁₀₀ " ".....	Jan. 1, 1950	Jan. 1, 1945
3 ⁰ / ₁₀₀ Serial debentures.....	May 1, 1950/52	May 1, 1942
3 ⁰ / ₁₀₀ Debentures.....	Feb. 1, 1951	Feb. 1, 1943
3 ⁰ / ₁₀₀ " ".....	Jan. 1, 1953	Jan. 1, 1943
3 1 ¹ / ₄ ⁰ / ₁₀₀ " ".....	Feb. 1, 1953	Feb. 1, 1938
2 3 ¹ / ₄ ⁰ / ₁₀₀ " ".....	Sept. 1, 1953	Sept. 1, 1943
4 ⁰ / ₁₀₀ " ".....	Aug. 1, 1957	Aug. 1, 1917
4 ⁰ / ₁₀₀ " ".....	June 1, 1958	June 1, 1918
4 ⁰ / ₁₀₀ " ".....	Dec. 1, 1958	Dec. 1, 1918
3 ⁰ / ₁₀₀ " ".....	Jan. 1, 1960	Jan. 1, 1945
4 3 ¹ / ₄ ⁰ / ₁₀₀ " ".....	Jan. 1, 1970	Jan. 1, 1930
Total Funded Debt (at par of exchange).....		

Funded Debt issued to finance:

Southern Ontario and Thunder Bay Systems.....	\$74,924,800.00
Northern Ontario Properties.....	31,973,200.00
	<u>\$106,898,000.00</u>

Summary of Changes in Funded Debt during year ended October 31, 1945

Outstanding as at October 31, 1944.....	\$100,274,000.00
Redemptions during the year.....	5,876,000.00
	<u>\$94,398,000.00</u>
New bond issues during the year.....	12,500,000.00
	<u>\$106,898,000.00</u>
Outstanding as at October 31, 1945.....	\$106,898,000.00

COMMISSION OF ONTARIO

October 31, 1945

interest by the Province of Ontario)

Principal outstanding October 31, 1945	Where payable	Remarks
\$ c.		
2,000,000.00	Canada	
7,500,000.00	Canada	\$1,875,000.00 maturing annually.
4,000,000.00	Canada	\$1,000,000.00 maturing annually.
1,800,000.00	N.Y.	\$900,000.00 maturing annually.
2,000,000.00	N.Y.	
7,934,000.00	Canada	
2,000,000.00	N.Y.	
2,000,000.00	N.Y.	
12,500,000.00	Canada	Callable on or after Aug. 1, 1946 at 100.
4,500,000.00	N.Y.	
2,000,000.00	Canada	
5,000,000.00	Canada	
3,000,000.00	Canada	\$1,000,000.00 maturing annually.
6,000,000.00	Canada	
5,000,000.00	N.Y.	Callable on or after Jan. 1, 1951 at 101.
9,000,000.00	Canada	Callable on or after Feb. 1, 1950 at 100.
3,000,000.00	N.Y.	Callable on or after Sept. 1, 1946 at 100.
8,000,000.00	C., N.Y., L.	
200,000.00	Toronto	
100,000.00	Toronto	
7,500,000.00	Canada	Callable on or after Jan. 1, 1955 at 100.
11,864,000.00	Canada	
106,898,000.00		

Payable in the following currencies:

Canadian.....	\$78,598,000.00
Canadian, United States, or Sterling.....	8,000,000.00
United States.....	20,300,000.00
	<u>\$106,898,000.00</u>

THE HYDRO-ELECTRIC POWER

Power Accounts Receivable

System or property	Wholesale consumers			
	Interim power bills	Accumulated amount standing as a charge or credit on October 31, 1945		Net total for wholesale consumers
		Charge	Credit	
SOUTHERN ONTARIO SYSTEM:	\$ c.	\$ c.	\$ c.	\$ c.
Municipalities.....	2,695,770.05	375.82	1,797,094.60	899,051.27
Companies.....	1,135,743.86			1,135,743.86
Local and rural.....				
	3,831,513.91	375.82	1,797,094.60	2,034,795.13
THUNDER BAY SYSTEM:				
Municipalities.....	141,264.29		63,102.90	78,161.39
Companies.....	114,818.98			114,818.98
Local and rural.....				
	256,083.27		63,102.90	192,980.37
Grand totals.....	4,087,597.18	375.82	1,860,197.50	2,227,775.50

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Renewals Reserves—October 31, 1945

	Southern Ontario system	Thunder Bay system	Service and administrative buildings and equipment	Totals for power undertakings operated on a "cost basis"
	\$ c.	\$ c.	\$ c.	\$ c.
Balances at November 1, 1944	56,048,260.34	4,209,281.77	774,801.23	61,032,343.34
Less amount withdrawn in respect of rural lines transferred.....	530.11			530.11
	56,047,730.23			61,031,813.23
Provision in the year—direct..	2,590,685.26	166,639.99		2,757,325.25
—indirect.....			26,735.48	26,735.48
Interest of 4% on reserve balances.....	2,241,909.21	168,371.27	17,591.00	2,427,871.48
Sub-total.....	60,880,324.70	4,544,293.03	819,127.71	66,243,745.44
Less:				
Expenditures in the year for renewals.....	116,185.97	56.34	2,183.10	118,425.41
Amount withdrawn in respect of assets removed from service, etc.....	156,189.32	1,082.84	103.59	157,375.75
Adjustment: Sales and transfer of equipment.....	87,429.76		1,790.65	89,220.41
Balances at October 31, 1945..	60,520,519.65	4,543,153.85	815,050.37	65,878,723.87
Account balances:	\$ c.	\$ c.	\$ c.	\$ c.
Power plants, transmission lines and transformer stations.....	52,299,039.00	4,489,024.17		56,788,063.17
Rural power districts.....	8,220,931.54	54,129.68		8,275,061.22
Rural lines.....	549.11			549.11
Administrative office buildings			319,701.01	319,701.01
Service buildings and equipment.....			495,349.36	495,349.36
	60,520,519.65	4,543,153.85	815,050.37	65,878,723.87

COMMISSION OF ONTARIO

—October 31, 1945

Retail power consumers local and rural districts	Net total of power accounts receivable	Balance sheet figures		Debit balances three months or more overdue
		Debit balances	Credit balances	
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	899,051.27	1,086,735.65	187,684.38	.....
.....	1,135,743.86	1,136,035.24	291.38	.....
1,224,691.41	1,224,691.41	1,224,691.41	.....	16,953.71
1,224,691.41	3,259,486.54	3,447,462.30	187,975.76	16,953.71
.....	78,161.39	78,909.03	747.64	.....
.....	114,818.98	119,617.25	4,798.27	.....
13,593.19	13,593.19	13,593.19	.....	2,218.25
13,593.19	206,573.56	212,119.47	5,545.91	2,218.25
1,238,284.60	3,466,060.10	3,659,581.77	193,521.67	19,171.96

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Contingencies and Obsolescence Reserves—October 31, 1945

	Southern Ontario system	Thunder Bay system	Totals for power undertakings operated on a “cost basis”
	\$ c.	\$ c.	\$ c.
Balances at November 1, 1944.....	29,118,416.40	3,364,500.57	32,482,916.97
Less:			
Adjustment of provision for years 1942 and 1943.....	18,013.40	.....	18,013.40
	29,100,403.00	3,364,500.57	32,464,903.57
Transferred during the year.....	63,132.74	1,134.41	64,267.15
Provision in the year as per cost statement...	10,640,505.26	566,797.02	11,207,302.28
Interest at 4% on reserve balances.....	1,160,964.28	128,949.18	1,289,913.46
Sub-total.....	40,965,005.28	4,061,381.18	45,026,386.46
Less:			
Contingencies met with during the year..	807,935.40	50,909.18	858,844.58
Write-off of certain assets no longer in service, etc.....	156,322.13	979.25	157,301.38
Balances at October 31, 1945.....	40,000,747.75	4,009,492.75	44,010,240.50
Account balances:	\$ c.	\$ c.	\$ c.
Power plants, transmission lines, trans- former stations and rural power districts.....	40,000,487.82	4,009,492.75	44,009,980.57
Rural lines.....	259.93	.....	259.93
	40,000,747.75	4,009,492.75	44,010,240.50

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Stabilization of Rates Reserves—October 31, 1945

	Southern Ontario system	Thunder Bay		Totals for power undertakings operated on a "cost basis"
		System	Mining area	
	\$ c.	\$ c.	\$ c.	\$ c.
Balances at November 1, 1944	15,687,464.81	439,419.53	404,359.57	16,531,243.91
Interest at 4% on reserve balances.....	627,498.59	17,576.78	16,174.38	661,249.75
	16,314,963.40	456,996.31	420,533.95	17,192,493.66
Deduct:				
Amount appropriated re cost of power, in the year, to mining area.....	.....	.....	48,619.76	48,619.76
Balances at October 31, 1945..	16,314,963.40	456,996.31	371,914.19	17,143,873.90

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Sinking Fund Reserves—October 31, 1945

	Southern Ontario system	Thunder Bay system	Service and administrative buildings and equipment	Totals for power undertakings operated on a "cost basis"
	\$ c.	\$ c.	\$ c.	\$ c.
Balances at November 1, 1944	75,229,606.22	4,031,435.52	789,741.23	80,050,782.97
Amount withdrawn in respect of rural lines transferred to Milton.....	440.82	.....	.....	440.82
	75,229,165.40	4,031,435.52	789,741.23	80,050,342.15
Provision in the year—direct..	2,993,496.03	199,891.67	.....	3,193,387.70
—indirect.....	.....	.....	39,226.23	39,226.23
Interest at 4% on reserve balances.....	3,009,166.62	161,257.42	31,589.65	3,202,013.69
Balances at October 31, 1945..	81,231,828.05	4,392,584.61	860,557.11	86,484,969.77
Account balances:				
Systems.....	78,077,806.17	4,368,815.62	.....	82,446,621.79
Rural power districts.....	3,153,286.07	23,768.99	.....	3,177,055.06
Rural lines.....	735.81	.....	.....	735.81
Administrative office buildings.....	.....	.....	574,111.33	574,111.33
Service buildings and equipment.....	.....	.....	286,445.78	286,445.78
	81,231,828.05	4,392,584.61	860,557.11	86,484,969.77

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

STATEMENTS FOR MUNICIPALITIES
RECEIVING POWER UNDER COST CONTRACTS
For the year ended October 31, 1945

STATEMENTS FOR EACH SYSTEM

Cost of Power

Credit or Charge

Sinking Fund

Rural Operating

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each
it by the Commission; the amount billed by the Commission against
or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system	Average horse- power supplied in year after correc- tion for power factor	Share of operating		
	To Dec. 31, 1944	From Jan. 1, 1945			Cost of power pur- chased	Operating main- tenance and adminis- trative expenses*	Interest
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Acton.....	28.50	27.50	339,035.38	1,745.5	10,994.32	8,603.90	13,882.33
Agincourt.....	29.00	27.50	45,831.67	236.0	1,486.48	1,205.36	1,875.96
Ailsa Craig.....	37.00	35.50	36,049.93	149.6	942.28	1,196.74	1,477.09
Alexandria.....	45.00	39.00	88,904.66	275.6	1,735.91	2,462.50	3,525.33
Alliston.....	40.50	37.50	117,553.42	462.5	2,913.13	3,025.63	4,793.86
Almonte.....	.....	28.00	51,579.93	224.5	1,414.05	1,908.51	1,927.78
Alvinston.....	45.00	39.00	34,705.83	123.8	779.77	1,655.57	1,419.31
Amherstburg.....	32.00	31.50	235,810.18	1,081.0	6,808.86	5,731.33	9,650.42
Ancaster Twp....	27.50	26.00	83,336.70	462.0	2,909.98	2,066.95	3,414.50
Apple Hill.....	44.00	39.00	12,551.01	49.3	310.52	559.98	508.53
Arkona.....	45.00	39.00	24,031.07	68.5	431.46	582.90	981.49
Arnprior.....	28.00	25.00	229,754.61	1,351.0	8,509.50	5,498.63	9,316.28
Arthur.....	45.00	39.00	56,467.73	179.2	1,128.72	1,788.62	2,295.28
Athens.....	45.00	39.00	34,539.99	118.3	745.13	1,011.20	1,414.34
Aurora.....	27.00	27.00	271,833.91	1,452.7	9,150.07	6,459.08	11,158.91
Aylmer.....	30.00	29.00	204,651.62	1,018.2	6,413.30	5,855.58	8,392.61
Ayr.....	32.50	32.00	51,298.23	231.2	1,456.25	1,463.54	2,104.60
Baden.....	28.00	26.50	121,223.78	644.6	4,060.12	3,039.97	4,962.61
Barrie.....	30.00	26.50	750,385.07	4,442.0	27,978.67	17,294.92	30,396.84
Bath.....	45.00	39.00	14,848.05	46.2	291.00	438.88	605.19
Beachville.....	28.50	27.50	154,843.69	798.9	5,032.00	3,975.34	6,340.42
Beamsville.....	26.00	25.00	87,055.92	521.9	3,287.27	2,232.61	3,565.72
Beaverton.....	39.00	36.00	58,929.12	280.8	1,768.67	2,021.66	2,396.13
Beeton.....	45.00	39.00	35,533.09	95.7	602.78	561.74	1,437.63
Belle River.....	32.50	31.50	46,475.51	206.2	1,298.78	1,699.49	1,886.99
Belleville.....	25.00	22.00	1,174,867.22	8,236.4	51,878.32	28,948.14	47,729.72
Blenheim.....	32.00	30.50	129,306.02	635.8	4,004.69	4,078.34	5,302.21
Bloomfield.....	42.00	39.00	33,634.05	131.3	827.01	1,178.42	1,369.57
Blyth.....	42.00	39.00	41,150.88	154.4	972.51	1,534.70	1,688.04
Bolton.....	32.00	31.00	51,745.78	231.4	1,457.51	1,576.75	2,127.23
Bothwell.....	37.00	35.50	35,363.33	144.2	908.27	1,566.79	1,450.62
Bowmanville.....	29.00	26.00	554,897.30	3,097.3	19,508.86	18,368.58	22,644.66
Bradford.....	42.50	39.00	67,802.68	260.4	1,640.17	1,969.27	2,771.66
Braeside.....	.....	27.00	33,555.21	186.5	1,174.70	921.89	1,386.39
Brampton.....	26.00	25.00	544,000.54	3,202.6	20,172.10	16,288.78	22,331.66
Brantford.....	23.50	22.50	3,799,806.53	22,768.2	143,409.26	90,479.52	156,206.30
Brantford Twp...	27.50	27.00	240,641.49	1,440.3	9,071.97	10,538.68	9,889.91
Brechin.....	45.00	39.00	12,427.72	51.5	324.38	470.96	502.58
Bridgeport.....	30.50	29.00	38,655.38	182.8	1,151.40	1,047.91	1,586.71
Brigden.....	44.00	39.00	26,318.33	93.1	586.41	1,012.17	1,071.87

* After crediting the amounts, totalling \$7,151.52, required to reduce the costs of power to \$39.00 per horsepower maximum.

SYSTEM

S.O.—COST OF POWER

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1945

costs and fixed charges			Revenue received in excess of cost of power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Balance credited or charged to each municipality Credited (Charged)
Provision for renewals	Provision for contingencies and obsolescence	Provision for sinking fund	Credit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3,037.38	4,670.20	3,569.00	1,801.25	42,955.88	48,285.68	5,329.80
395.89	623.26	482.47	243.54	5,825.88	6,548.77	722.89
363.94	421.09	378.80	154.38	4,625.56	5,343.80	718.24
1,269.34	813.13	909.11	284.40	10,430.92	11,043.29	612.37
1,594.40	1,289.99	1,237.78	477.27	14,377.52	17,572.69	3,195.17
560.31	592.13	491.16	231.67	6,662.27	6,286.45	(375.82)
371.53	364.39	365.38	127.75	4,828.20	4,962.02	133.82
2,196.27	2,999.82	2,482.26	1,115.52	28,753.44	34,139.36	5,385.92
713.53	1,209.53	877.53	476.75	10,715.27	12,133.56	1,418.29
169.15	141.36	132.13	50.87	1,770.80	1,960.36	189.56
277.99	215.34	253.01	70.69	2,671.50	2,735.99	64.49
2,351.47	3,471.43	2,418.48	1,394.15	30,171.64	34,422.60	4,250.96
836.17	530.35	594.58	184.92	6,988.80	7,170.32	181.52
494.41	339.80	363.67	122.08	4,246.47	4,718.07	471.60
2,277.28	3,811.32	2,861.54	1,499.10	34,219.10	39,223.39	5,004.29
1,870.75	2,754.19	2,152.56	1,050.72	26,388.27	29,689.12	3,300.85
498.31	647.37	539.97	238.58	6,471.46	7,417.42	945.96
1,054.34	1,710.71	1,275.58	665.19	15,438.14	17,250.23	1,812.09
7,740.41	11,232.00	7,900.98	4,583.86	97,959.96	120,234.31	22,274.35
220.24	137.85	156.32	47.68	1,801.80	1,851.34	49.54
1,385.23	2,155.67	1,630.03	824.41	19,694.28	22,096.20	2,401.92
723.87	1,334.79	916.48	538.57	11,522.17	13,131.91	1,609.74
719.18	754.01	620.49	289.77	7,990.37	10,218.10	2,227.73
554.10	300.66	374.15	98.76	3,732.30	3,826.15	93.85
433.99	573.72	484.06	212.79	6,164.24	6,529.29	365.05
9,819.07	20,292.53	12,366.26	8,499.45	162,534.59	185,211.52	22,676.93
1,171.58	1,723.14	1,361.06	656.11	16,984.91	19,564.06	2,579.15
454.54	368.39	354.04	135.49	4,416.48	5,179.51	763.03
432.00	446.39	433.23	159.33	5,347.54	6,087.59	740.05
489.43	629.16	544.74	238.79	6,586.03	7,212.39	626.36
356.31	415.93	372.29	148.81	4,921.40	5,156.15	234.75
5,955.01	8,073.87	5,841.57	3,196.22	77,196.33	82,123.41	4,927.08
929.76	737.83	713.78	268.72	8,493.75	10,269.45	1,775.70
361.39	483.82	353.22	192.46	4,488.95	5,034.38	545.43
4,443.29	8,199.82	5,726.71	3,304.89	73,857.47	80,554.43	6,696.96
30,293.71	58,459.84	39,991.72	23,495.35	495,345.00	516,219.90	20,874.90
1,920.38	3,699.47	2,532.67	1,486.30	36,166.78	39,016.70	2,849.92
164.30	142.96	130.86	53.14	1,682.90	2,057.15	374.25
363.31	497.52	406.88	188.64	4,865.09	5,341.13	476.04
282.69	276.21	277.08	96.07	3,410.36	3,707.63	297.27

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount billed by the Commission against or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system	Average horse-power supplied in year after correction for power factor	Share of operating		
	To Dec. 31, 1944	From Jan. 1, 1945			Cost of power purchased	Operating maintenance and administrative expenses*	Interest
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Brighton.....	30.50	27.50	87,472.10	473.8	2,984.31	2,265.15	3,566.80
Brockville.....	26.00	24.50	897,633.94	5,321.1	33,515.83	21,116.75	36,772.69
Brussels.....	41.50	39.00	42,738.81	165.3	1,041.17	1,761.42	1,751.80
Burford.....	29.50	28.00	48,790.08	258.9	1,630.72	1,430.73	1,997.98
Burgessville.....	41.00	39.00	14,192.66	52.7	331.94	695.26	581.90
Burlington.....	.....	24.50	243,888.42	1,434.6	9,036.06	7,305.67	10,074.47
Caledonia.....	27.50	27.00	80,066.47	416.8	2,625.28	2,144.58	3,293.09
Campbellville....	45.00	39.00	15,479.82	49.1	309.26	592.87	600.04
Cannington.....	37.50	34.50	44,141.77	215.6	1,357.99	1,699.02	1,794.28
Cardinal.....	29.00	26.50	62,991.48	360.3	2,269.41	1,615.75	2,564.56
Carleton Place...	28.00	25.50	325,171.17	1,959.6	12,342.86	7,624.22	13,245.27
Cayuga.....	39.00	39.00	42,582.62	152.4	959.92	1,449.96	1,757.89
Chatham.....	26.50	25.50	1,383,707.54	7,726.2	48,664.75	34,968.44	56,793.08
Chatsworth.....	40.00	37.50	21,361.51	87.6	551.76	587.11	871.22
Chesley.....	34.00	31.00	124,386.16	611.6	3,852.26	2,944.52	5,057.46
Chesterville.....	33.00	30.00	65,561.18	309.1	1,946.92	1,835.92	2,676.77
Chippawa.....	21.50	21.50	49,920.55	365.6	2,302.79	1,156.09	2,042.79
Clifford.....	44.50	39.00	35,238.94	114.3	719.94	1,309.38	1,441.91
Clinton.....	32.00	30.50	154,102.88	722.4	4,550.16	4,614.45	6,311.05
Cobden.....	45.00	39.00	31,880.38	130.3	820.72	1,166.67	1,294.78
Cobourg.....	29.50	26.50	415,813.18	2,413.4	15,201.20	13,200.91	16,925.73
Colborne.....	33.00	30.50	50,925.06	252.2	1,588.52	1,478.33	2,077.29
Coldwater.....	35.00	33.50	40,068.50	202.4	1,274.85	1,204.53	1,632.37
Collingwood.....	31.00	27.50	510,864.12	2,860.6	18,017.96	11,605.36	20,661.72
Comber.....	39.00	38.50	37,706.51	151.0	951.10	1,327.93	1,547.52
Cookstown.....	39.00	35.50	23,371.45	98.8	622.31	609.88	949.68
Cottam.....	38.00	38.00	21,919.90	86.6	545.46	707.77	899.06
Courtright.....	44.50	39.00	17,243.36	54.5	343.28	594.08	704.54
Creemore.....	41.50	38.50	34,889.82	150.3	946.69	1,141.46	1,419.12
Dashwood.....	35.50	34.00	30,466.81	123.8	779.77	890.78	1,242.55
Delaware.....	30.50	29.00	15,165.86	79.4	500.11	510.49	619.62
Delhi.....	31.00	31.00	129,335.73	619.4	3,901.39	3,894.18	5,303.77
Deseronto.....	38.00	35.00	56,515.44	257.1	1,619.39	1,905.48	2,286.59
Dorchester.....	33.00	33.00	24,454.37	117.3	738.83	754.11	1,000.05
Drayton.....	45.00	39.00	50,858.56	150.1	945.43	1,397.81	2,079.89
Dresden.....	33.50	32.50	116,231.01	495.0	3,117.84	3,381.28	4,408.78
Drumbo.....	33.00	31.50	21,988.00	105.9	667.03	882.82	897.54
Dublin.....	43.50	39.00	12,876.12	47.0	296.04	469.06	504.52
Dundalk.....	34.00	31.00	46,415.83	241.5	1,521.13	1,581.74	1,889.62
Dundas.....	22.50	22.50	513,277.64	3,177.8	20,015.89	10,942.69	21,118.86

SYSTEM

S.O.—COST OF POWER

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1945

costs and fixed charges			Revenue received in excess of cost of power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Balance credited or charged to each municipality Credited (Charged)
Provision for renewals	Provision for contingencies and obsolescence	Provision for sinking fund	Credit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
962.27	1,259.42	920.61	488.93	11,469.63	13,287.24	1,817.61
9,118.98	13,567.06	9,450.43	5,491.04	118,050.70	131,647.59	13,596.89
442.74	474.61	449.94	170.58	5,751.10	6,512.72	761.62
428.20	688.51	513.53	267.17	6,422.50	7,305.15	882.65
151.05	151.51	149.42	54.38	2,006.70	2,070.28	63.58
1,992.27	3,688.42	2,566.77	1,480.42	33,183.24	35,146.46	1,963.22
716.63	1,117.78	842.86	430.11	10,310.11	11,287.63	977.52
163.25	145.57	154.58	50.67	1,914.90	1,959.43	44.53
530.11	574.56	464.78	222.49	6,198.25	7,530.94	1,332.69
661.48	937.94	663.08	371.81	8,340.41	9,670.29	1,329.88
3,247.13	5,006.59	3,421.81	2,022.18	42,865.70	50,761.39	7,895.69
461.76	446.41	448.39	157.27	5,367.06	5,941.99	574.93
11,425.44	20,243.46	14,565.81	7,972.95	178,688.03	198,293.91	19,605.88
283.92	254.75	224.93	90.40	2,683.29	3,324.09	640.80
1,487.12	1,639.52	1,309.71	631.13	15,659.46	19,247.80	3,588.34
797.90	842.48	690.17	318.97	8,471.19	9,425.28	954.09
346.47	887.56	525.55	377.28	6,883.97	7,859.32	975.35
388.38	345.04	371.00	117.95	4,457.70	4,559.63	101.93
1,444.72	1,965.51	1,622.27	745.47	19,762.69	22,196.82	2,434.13
421.22	363.22	335.62	134.46	4,267.77	5,210.63	942.86
4,306.65	6,253.09	4,376.15	2,490.48	57,773.25	65,118.34	7,345.09
599.50	691.73	536.00	260.25	6,711.12	7,801.40	1,090.28
470.23	541.78	421.89	208.86	5,336.79	6,828.92	1,492.13
5,537.22	7,335.48	5,379.02	2,951.96	65,584.80	80,420.82	14,836.02
386.96	427.60	396.96	155.82	4,882.25	5,827.92	945.67
305.68	275.92	246.03	101.96	2,907.54	3,559.81	652.27
221.64	247.16	230.94	89.37	2,762.66	3,290.79	528.13
193.04	165.26	181.54	56.24	2,125.50	2,176.18	50.68
451.90	409.78	367.37	155.10	4,581.22	5,862.40	1,281.18
308.46	348.82	318.59	127.75	3,761.22	4,240.38	479.16
133.86	211.91	159.42	81.94	2,053.47	2,322.37	268.90
1,208.51	1,681.13	1,361.35	639.18	16,711.15	19,201.13	2,489.98
703.34	718.30	594.95	265.31	7,562.74	9,118.86	1,556.12
228.49	317.63	257.09	121.05	3,175.15	3,871.74	696.59
578.74	471.47	535.45	154.89	5,853.90	6,007.33	153.43
1,019.32	1,363.72	1,134.89	510.81	13,915.02	16,174.83	2,259.81
205.41	286.67	231.30	109.28	3,061.49	3,360.61	299.12
129.07	138.68	130.17	48.50	1,619.04	1,868.83	249.79
533.22	636.28	488.73	249.21	6,401.51	7,607.93	1,206.42
4,008.76	8,082.27	5,404.71	3,279.29	66,293.89	71,500.49	5,206.60

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each
it by the Commission; the amount billed by the Commission against
or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system	Average horse- power supplied in year after cor- rection for power factor	Share of operating		
	To Dec. 31, 1944	From Jan. 1, 1945			Cost of power pur- chased	Operating main- tenance and adminis- trative expenses*	Interest
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Dunnville.....	25.00	25.00	272,627.85	1,509.4	9,507.21	6,847.01	11,232.87
Durham.....	35.50	32.50	83,782.53	415.3	2,615.84	2,783.51	3,397.61
Dutton.....	32.50	31.50	55,977.93	270.0	1,700.64	1,890.06	2,295.28
East York Twp..	26.00	24.00	1,619,727.21	9,798.7	61,718.73	36,764.35	66,144.86
Elmira.....	29.00	28.50	269,979.18	1,410.6	8,884.90	6,447.38	11,039.68
Elmvale.....	36.00	33.00	33,069.91	174.8	1,101.01	1,543.02	1,342.69
Elmwood.....	42.50	39.00	18,682.02	68.2	429.57	802.79	765.47
Elora.....	31.00	29.50	107,076.18	501.2	3,156.89	2,881.09	4,392.03
Embro.....	33.00	31.50	30,208.17	135.1	850.95	959.56	1,230.25
Erieau.....	42.50	39.00	46,427.00	174.5	1,099.12	1,634.89	1,899.81
Erie Beach.....	45.00	39.00	6,863.21	22.6	142.35	266.68	280.89
Essex.....	30.50	30.50	127,635.20	595.2	3,748.97	3,145.56	5,232.64
Etobicoke Twp..	24.50	24.00	1,464,225.16	8,575.7	54,015.46	35,670.96	60,220.24
Exeter.....	32.00	30.00	173,368.97	803.6	5,061.61	4,973.84	7,053.97
Fergus.....	29.50	27.50	289,808.87	1,427.3	8,990.08	7,766.27	11,870.19
Finch.....	41.00	38.50	23,947.00	99.0	623.57	867.50	978.53
Flesherton.....	43.00	39.00	15,568.64	71.3	449.09	681.64	630.88
Fonthill.....	29.50	28.00	36,008.63	196.5	1,237.69	969.92	1,469.67
Forest.....	36.50	36.50	146,784.25	636.6	4,009.73	4,706.45	6,012.69
Forest Hill.....	24.50	22.00	1,194,230.02	7,413.2	46,693.26	26,587.38	48,848.52
Galt.....	24.00	22.50	2,028,272.76	12,028.2	75,761.60	51,037.79	83,403.73
Georgetown.....	30.50	29.00	431,863.71	2,095.2	13,196.96	11,104.37	17,708.92
Glencoe.....	44.50	39.00	64,703.23	218.7	1,377.52	2,488.25	2,644.81
Goderich.....	34.00	32.50	413,294.77	1,748.5	11,013.22	11,702.07	16,941.42
Grand Valley....	45.00	39.00	43,433.94	167.9	1,057.55	1,645.28	1,770.76
Granton.....	39.50	38.00	17,202.96	69.2	435.87	642.34	704.15
Gravenhurst....	25.00	25.00	222,547.45	1,327.6	8,362.11	5,007.69	9,143.32
Grimsby.....	26.00	26.00	173,933.70	942.0	5,933.34	4,613.66	7,158.38
Guelph.....	23.50	23.00	2,068,118.83	12,397.9	78,090.22	51,997.99	85,099.31
Hagersville.....	28.50	28.00	210,056.13	998.3	6,287.96	5,172.34	8,659.77
Hamilton.....	22.00	20.50	25,670,957.68	164,376.1	1,035,349.99	555,056.03	1,056,379.15
Hanover.....	30.00	27.00	250,200.02	1,458.5	9,186.60	5,606.83	10,144.65
Harriston.....	36.00	34.50	120,120.95	483.8	3,047.29	4,220.80	4,925.42
Harrow.....	33.50	33.50	144,356.36	627.1	3,949.89	3,890.64	5,912.23
Hastings.....	40.00	37.00	34,036.72	157.8	993.93	1,832.77	1,389.31
Havelock.....	45.00	39.00	44,410.71	174.2	1,097.23	2,278.16	1,818.22
Hensall.....	39.00	37.50	56,407.27	198.0	1,247.14	1,831.73	2,300.59
Hespeler.....	24.50	24.00	501,007.06	2,980.9	18,775.69	12,763.87	20,584.18
Hightgate.....	37.00	36.50	23,701.09	94.5	595.22	765.37	971.28
Holstein.....	45.00	39.00	8,267.75	23.1	145.50	156.73	337.91

SYSTEM

S.O.—COST OF POWER

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1945

costs and fixed charges			Revenue received in excess of cost of power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Balance credited or charged to each municipality Credited (Charged)
Provision for renewals	Provision for contingencies and obsolescence	Provision for sinking fund				
			Credit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,404.25	3,872.85	2,870.13	1,557.61	35,176.71	37,735.20	2,558.49
996.20	1,096.31	882.17	428.56	11,343.08	13,693.36	2,350.28
521.71	735.84	588.81	278.62	7,453.72	8,549.82	1,096.10
12,189.02	24,838.20	17,049.85	10,111.64	208,593.37	238,765.82	30,172.45
2,378.88	3,752.79	2,841.67	1,455.65	33,889.65	40,312.46	6,422.81
375.42	461.29	348.21	180.38	4,991.26	5,854.22	862.96
262.07	208.92	196.71	70.38	2,595.15	2,699.87	104.72
1,018.03	1,378.47	1,127.21	517.21	13,436.51	14,905.32	1,468.81
294.60	376.21	318.01	139.41	3,890.17	4,284.73	394.56
485.62	500.28	488.72	180.07	5,928.37	6,880.75	952.38
75.64	66.91	72.25	23.32	881.40	891.55	10.15
1,178.03	1,641.24	1,344.80	614.21	15,677.03	18,152.07	2,475.04
11,987.56	22,187.12	15,413.85	8,849.58	190,645.61	206,574.35	15,928.74
1,636.36	2,199.56	1,811.12	829.26	21,907.20	24,380.05	2,472.85
2,672.34	3,852.72	3,050.83	1,472.88	36,729.55	39,696.56	2,967.01
314.53	272.09	252.10	102.16	3,206.16	3,849.69	643.53
194.72	191.82	163.93	73.58	2,238.50	2,834.78	596.28
321.87	511.29	379.08	202.78	4,686.74	5,557.09	870.35
1,435.29	1,784.61	1,545.26	656.93	18,837.10	23,235.01	4,397.91
8,729.81	18,679.76	12,572.88	7,649.96	154,461.65	166,522.04	12,060.39
16,297.61	30,957.15	21,351.14	12,412.35	266,396.67	273,739.08	7,342.41
4,019.45	5,664.35	4,546.27	2,162.11	54,078.21	61,245.47	7,167.26
706.64	648.93	681.33	225.68	8,321.80	8,730.95	409.15
4,101.37	4,854.90	4,350.94	1,804.34	51,159.58	57,265.33	6,105.75
593.99	473.23	457.34	173.26	5,824.89	6,699.99	875.10
176.44	196.32	180.90	71.41	2,264.61	2,646.59	381.98
2,278.95	3,360.52	2,343.25	1,370.00	29,125.84	33,190.60	4,064.76
1,558.58	2,466.10	1,831.12	972.08	22,589.10	24,491.35	1,902.25
16,474.10	31,904.21	21,769.86	12,793.86	272,541.83	286,225.77	13,683.94
1,991.50	2,735.40	2,211.86	1,030.18	26,028.65	28,045.66	2,017.01
194,195.10	414,734.78	270,290.48	169,625.80	3,356,379.73	3,411,810.33	55,430.60
2,618.81	3,744.58	2,634.93	1,505.08	32,431.32	40,065.68	7,634.36
1,208.34	1,387.85	1,264.61	499.25	15,555.06	16,796.04	1,240.98
1,389.35	1,767.38	1,520.91	647.13	17,783.27	21,008.70	3,225.43
418.57	433.25	358.25	162.84	5,263.24	5,912.21	648.97
598.80	495.37	467.47	179.76	6,575.49	6,980.07	404.58
608.54	576.18	590.41	204.32	6,950.27	7,481.37	531.10
4,014.21	7,667.85	5,273.98	3,076.10	66,003.68	71,794.10	5,790.42
241.39	267.80	249.51	97.52	3,023.02	3,458.88	435.86
127.56	69.99	87.05	23.84	900.90	925.51	24.61

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each
it by the Commission; the amount billed by the Commission against
or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system	Average horse- power supplied in year after correc- tion for power factor	Share of operating		
	To Dec. 31, 1944	From Jan. 1, 1945			Cost of power pur- chased	Operating main- tenance and adminis- trative expenses*	Interest
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Humberstone....	24.50	24.00	108,950.68	604.8	3,809.43	2,403.69	4,467.58
Huntsville.....	28.00	28.00	255,402.54	1,278.8	8,054.73	6,122.17	10,585.73
Ingersoll.....	25.50	25.00	618,535.68	3,493.5	22,004.39	16,147.62	25,399.66
Iroquois.....	27.50	25.50	48,801.97	300.5	1,892.75	1,245.11	1,993.97
Jarvis.....	35.50	34.50	50,016.28	189.5	1,193.60	1,801.10	2,058.72
Kemptville.....	35.00	32.00	86,071.39	375.2	2,363.26	3,542.02	3,514.91
Kincardine.....	38.50	35.50	187,986.34	806.7	5,081.13	5,297.37	7,641.76
Kingston.....	26.00	22.50	2,478,821.17	16,544.1	104,205.74	60,501.15	100,626.70
Kingsville.....	32.50	32.50	153,050.15	671.1	4,227.03	3,642.70	6,275.11
Kirkfield.....	45.00	39.00	10,982.36	26.3	165.65	60.41	448.44
Kitchener.....	23.50	22.50	4,916,164.56	29,631.8	186,640.78	113,499.97	202,016.12
Lakefield.....	28.00	25.00	80,086.71	462.8	2,915.02	2,669.28	3,251.29
Lambeth.....	33.00	32.00	31,981.97	143.7	905.12	1,077.13	1,312.72
Laanark.....	40.00	39.00	37,821.98	102.7	646.87	880.83	1,398.52
Lancaster.....	45.00	39.00	18,794.95	58.4	367.84	552.95	766.69
LaSalle.....	31.50	31.00	65,129.19	307.4	1,936.21	1,730.41	2,664.69
Leamington.....	32.00	32.00	456,809.19	2,010.6	12,664.10	11,773.73	18,744.57
Lindsay.....	30.00	26.50	714,699.62	3,932.9	24,772.02	22,370.04	29,036.71
Listowel.....	30.50	30.00	333,068.22	1,569.6	9,886.38	9,835.46	13,668.42
London.....	23.00	22.50	7,247,390.17	43,539.7	274,241.99	171,492.23	297,888.04
LondonTwp.....	28.50	27.00	112,081.60	585.2	3,685.98	3,053.42	4,588.38
Long Branch.....	25.50	24.50	256,023.12	1,494.9	9,415.87	6,360.33	10,512.22
Lucan.....	31.50	31.00	41,483.33	202.6	1,276.11	1,276.52	1,695.77
Lucknow.....	43.00	39.00	100,466.91	373.2	2,350.66	2,918.28	4,058.14
Lynden.....	32.00	31.00	25,216.29	122.4	770.96	686.35	1,030.83
Madoc.....	42.50	39.00	49,087.42	222.3	1,400.19	2,667.05	1,997.41
Markdale.....	34.50	31.50	36,447.19	192.6	1,213.12	1,233.30	1,478.87
Markham.....	29.50	28.00	79,538.14	398.3	2,508.76	1,969.89	3,260.53
Marmora.....	36.00	33.00	33,835.00	154.9	975.66	1,091.19	1,384.43
Martintown.....	38.00	36.00	9,312.84	45.0	283.44	362.73	377.79
Maxville.....	45.00	39.00	35,107.73	116.8	735.68	1,107.88	1,435.50
Meaford.....	35.50	32.50	167,180.05	818.9	5,157.98	5,070.76	6,797.09
Merlin.....	35.50	34.00	24,310.45	103.4	651.28	818.70	997.51
Merrittton.....	20.50	20.00	1,588,580.61	11,212.0	70,620.64	35,473.42	65,286.09
Midland.....	29.00	26.00	759,536.98	4,638.6	29,216.99	17,936.79	30,723.16
Mildmay.....	39.00	35.50	35,014.20	151.0	951.10	1,110.02	1,419.26
Millbrook.....	34.00	31.50	27,910.92	126.0	793.63	901.69	1,143.52
Milton.....	28.50	28.00	288,563.11	1,581.9	9,963.86	8,662.51	11,748.14
Milverton.....	30.50	30.50	107,211.25	475.0	2,991.87	3,146.04	4,323.21
Mimico.....	23.50	23.00	485,078.50	3,009.2	18,953.94	12,299.31	19,958.13

SYSTEM

S.O.—COST OF POWER

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1945

costs and fixed charges			Revenue received in excess of cost of power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Balance credited or charged to each municipality Credited (Charged)
Provision for renewals	Provision for contingencies and obsolescence	Provision for sinking fund				
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
948.78	1,602.12	1,143.09	624.12	13,750.57	14,571.39	820.82
3,042.36	3,352.30	2,703.16	1,319.64	32,540.81	35,804.97	3,264.16
5,178.78	9,106.92	6,511.08	3,605.07	80,743.38	87,636.65	6,893.27
478.19	765.22	514.33	310.10	6,579.47	7,751.24	1,171.77
530.17	550.89	526.66	195.55	6,465.59	6,569.46	103.87
1,097.96	1,029.44	905.91	387.18	12,066.32	12,190.34	124.02
2,439.94	2,192.08	1,979.39	832.46	23,799.21	29,018.93	5,219.72
22,101.46	41,064.95	26,091.76	17,072.47	337,519.29	381,711.51	44,192.22
1,465.32	1,888.82	1,612.52	692.53	18,418.97	21,811.02	3,392.05
176.62	86.08	115.64	27.14	1,025.70	1,050.25	24.55
38,644.52	76,016.48	51,741.79	30,578.15	637,981.51	671,725.49	33,743.98
833.08	1,189.25	842.99	477.58	11,223.33	11,812.74	589.41
310.28	394.86	336.27	148.29	4,188.09	4,625.62	437.53
509.86	311.72	358.18	105.98	4,000.00	4,021.46	21.46
278.92	173.59	197.88	60.27	2,277.60	2,342.81	65.21
595.63	845.27	685.58	317.22	8,140.57	9,552.29	1,411.72
4,364.18	5,589.72	4,812.90	2,074.81	55,874.39	64,338.65	8,464.26
7,693.15	10,209.54	7,486.80	4,058.51	97,509.75	106,535.90	9,026.15
3,070.48	4,322.73	3,506.27	1,619.73	42,670.01	47,216.23	4,546.22
57,366.36	111,888.02	76,160.48	44,930.23	944,106.89	983,343.45	39,236.56
991.16	1,558.38	1,178.17	603.89	14,451.60	15,966.72	1,515.12
2,105.47	3,867.89	2,695.17	1,542.64	33,414.31	36,894.80	3,480.49
383.34	552.58	436.11	209.07	5,411.36	6,295.48	884.12
1,398.77	1,063.78	1,057.87	385.12	12,462.38	14,823.17	2,360.79
236.10	332.06	265.52	126.31	3,195.51	3,812.88	617.37
612.58	613.16	516.75	229.40	7,577.74	8,800.52	1,222.78
413.85	499.56	383.76	198.75	5,023.71	6,167.01	1,143.30
699.48	1,067.39	837.29	411.02	9,932.32	11,249.50	1,317.18
419.47	434.98	356.19	159.85	4,502.07	5,191.14	689.07
111.53	120.82	98.04	46.44	1,307.91	1,636.20	328.29
508.19	346.98	369.61	120.53	4,383.31	4,668.53	285.22
2,003.85	2,161.92	1,760.30	845.05	22,106.85	26,998.80	4,891.95
239.79	291.41	255.93	106.70	3,147.92	3,544.05	396.13
11,326.29	27,609.17	16,723.05	11,570.08	215,468.58	225,260.13	9,791.55
7,601.82	11,590.59	7,997.32	4,786.74	100,279.93	122,893.03	22,613.10
453.25	418.60	368.68	155.82	4,565.09	5,449.39	884.30
348.88	353.51	293.78	130.02	3,704.99	4,018.32	313.33
2,468.81	4,100.58	3,021.07	1,632.42	38,332.55	44,427.03	6,094.48
993.02	1,332.20	1,105.88	490.17	13,402.05	14,486.23	1,084.18
3,783.91	7,643.50	5,106.37	3,105.31	64,639.85	69,473.41	4,833.56

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each
it by the Commission; the amount billed by the Commission against
or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system	Average horse- power supplied in year after correc- tion for power factor	Share of operating		
	To Dec. 31, 1944	From Jan. 1, 1945			Cost of power pur- chased	Operating main- tenance and adminis- trative expenses*	Interest
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Mitchell.....	29.50	28.00	155,713.20	800.7	5,043.34	4,626.89	6,372.84
Moorefield.....	45.00	39.00	21,837.32	61.2	385.48	494.85	892.25
Morrisburg.....	30.50	28.00	66,275.56	362.8	2,285.16	1,800.55	2,703.35
Mount Brydges..	32.50	31.50	21,970.48	106.7	672.07	856.24	901.17
Mount Forest....	41.50	38.50	136,079.05	562.8	3,544.89	4,664.80	5,545.86
Napanee.....	29.00	25.50	247,592.22	1,528.3	9,626.25	8,180.78	10,079.43
Neustadt.....	39.00	36.00	9,809.53	46.8	294.78	409.64	397.05
Newbury.....	42.00	39.00	10,235.63	36.7	231.16	488.13	418.76
Newcastle.....	32.50	29.50	41,627.14	204.7	1,289.34	1,311.50	1,703.75
New Hamburg....	29.00	27.50	132,900.74	677.6	4,267.98	3,417.54	5,443.81
Newmarket.....		27.25	213,347.79	1,124.6	7,083.48	5,175.53	8,783.51
New Toronto....	25.50	24.50	2,119,774.28	11,715.8	73,793.90	59,929.00	87,244.04
Niagara Falls....	18.50	17.75	1,310,308.97	11,273.3	71,006.74	30,286.40	53,746.40
Niagara-on-the- Lake.....	22.50	22.50	138,249.58	969.4	6,105.93	3,985.97	5,661.09
North York Twp.	27.00	24.50	1,977,535.08	10,951.1	68,977.31	46,192.50	80,916.28
Norwich.....	30.00	29.00	94,404.15	471.7	2,971.08	2,557.66	3,863.46
Norwood.....	34.00	31.50	32,151.66	175.2	1,103.53	1,797.61	1,308.59
Oil Springs.....	35.00	35.00	41,822.84	185.2	1,166.51	1,382.06	1,713.88
Omeme.....	33.00	30.00	41,373.11	204.5	1,288.08	1,108.89	1,688.75
Orangeville.....	40.50	37.50	183,605.77	806.7	5,081.13	5,750.15	7,444.11
Orono.....	38.00	37.00	23,659.03	100.1	630.50	813.43	969.80
Oshawa.....	29.50	26.00	3,130,107.29	17,859.8	112,492.90	90,887.43	127,311.30
Ottawa (11,000) volts..			964.70	19,713.1	216,843.90	19,943.23	39.87
Ottawa.....	21.50	21.50	2,484,357.78	18,876.8	118,898.64	59,562.85	101,793.01
Otterville.....	34.50	33.00	26,153.49	112.7	709.86	922.98	1,069.79
Owen Sound.....	30.50	27.00	1,162,486.39	6,570.8	41,387.27	25,461.04	47,229.83
Paisley.....	45.00	39.00	37,870.76	140.6	885.59	1,129.61	1,548.50
Palmerston.....	33.00	33.00	152,621.26	649.9	4,093.50	4,928.72	6,277.68
Paris.....	24.50	23.00	344,672.87	2,034.8	12,816.52	8,777.51	14,156.57
Parkhill.....	44.00	39.00	71,496.86	247.2	1,557.03	2,478.51	2,919.32
Penetanguishene..	31.00	28.50	199,654.50	1,097.3	6,911.53	4,761.90	8,112.39
Perth.....	28.00	25.00	323,748.30	1,875.3	11,811.89	7,924.36	13,180.59
Peterborough....	25.50	22.00	2,309,665.87	15,668.7	98,691.89	57,033.19	94,658.17
Petrolia.....	32.50	32.50	253,432.96	1,177.1	7,414.16	7,937.51	10,355.09
Pictou.....	34.50	31.50	297,316.20	1,405.5	8,852.77	8,860.14	12,130.87
Plattsville.....	37.00	36.00	37,458.74	154.8	975.03	1,414.26	1,530.44
Point Edward....	32.00	32.00	331,612.63	1,734.7	10,926.29	14,154.29	13,580.78
Port Colborne....	24.50	24.00	331,193.44	1,838.5	11,580.10	7,061.94	13,558.36
Port Credit.....	27.50	25.50	179,673.95	1,020.7	6,429.05	4,853.13	7,337.31
Port Dalhousie...	25.50	24.50	167,310.26	1,008.2	6,350.31	4,375.33	6,832.44

SYSTEM

S.O.—COST OF POWER

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1945

costs and fixed charges			Revenue received in excess of cost of power sold to private com- panies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Balance credited or charged to each municipality Credited (Charged)
Provision for renewals	Provision for contingencies and obsolescence	Provision for sinking fund				
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,374.92	2,140.87	1,639.18	826.27	20,371.77	22,611.57	2,239.80
252.48	194.98	229.91	63.15	2,386.80	2,441.56	54.76
723.01	958.68	697.66	374.39	8,794.02	10,299.23	1,505.21
203.74	288.75	230.97	110.11	3,042.83	3,378.71	335.88
1,800.81	1,549.33	1,432.83	580.77	17,957.75	21,933.02	3,975.27
2,413.78	3,906.63	2,606.20	1,577.11	35,235.96	39,844.28	4,608.32
119.66	124.61	103.30	48.29	1,400.75	1,707.76	307.01
109.23	109.71	107.77	37.87	1,426.89	1,449.14	22.25
492.46	559.11	438.13	211.24	5,583.05	6,123.21	540.16
1,190.93	1,812.34	1,398.87	699.24	16,832.23	18,792.08	1,959.85
1,795.17	2,954.69	2,237.86	1,160.52	26,869.72	30,643.99	3,774.27
18,232.66	30,925.51	22,338.19	12,089.97	280,373.33	288,963.80	8,590.47
7,248.40	26,345.88	13,794.10	11,633.33	190,794.59	201,459.40	10,664.81
1,001.21	2,329.70	1,451.46	1,000.36	19,535.00	21,810.57	2,275.57
16,081.68	28,551.07	20,809.48	11,300.84	250,227.48	273,406.07	23,178.59
862.57	1,274.52	993.79	486.76	12,036.32	13,755.34	1,719.02
351.97	466.92	338.39	180.80	5,186.21	5,591.71	405.50
404.36	520.50	440.29	191.11	5,436.49	6,481.13	1,044.64
487.70	555.56	435.46	211.03	5,353.41	6,241.86	888.45
2,352.33	2,179.73	1,933.26	832.46	23,908.25	30,630.67	6,722.42
306.87	281.67	249.03	103.30	3,148.00	3,718.82	570.82
32,929.95	46,003.77	32,942.55	18,430.19	424,137.71	475,080.26	50,942.55
19.30	4.82	10.16	.....	236,861.28	236,861.28	.....
18,511.49	45,652.17	26,148.62	19,479.67	351,087.11	405,851.00	54,763.89
260.07	313.51	275.33	116.30	3,435.24	3,747.04	311.80
12,499.64	16,833.81	12,240.13	6,780.65	148,871.07	181,214.62	32,343.55
527.39	401.47	398.76	145.09	4,746.23	5,616.13	869.90
1,492.03	1,843.24	1,606.71	670.66	19,571.22	21,445.90	1,874.68
2,783.61	5,242.62	3,627.60	2,099.79	45,304.64	47,300.40	1,995.76
780.31	725.64	751.54	255.09	8,957.26	9,832.92	875.66
2,197.86	2,818.87	2,102.22	1,132.34	25,772.43	31,734.88	5,962.45
3,358.76	4,829.15	3,406.92	1,935.19	42,576.48	47,804.95	5,228.47
20,394.84	38,828.78	24,428.35	16,169.11	317,866.11	353,134.59	35,268.48
2,384.25	3,257.98	2,667.95	1,214.69	32,802.25	38,336.32	5,534.07
3,611.23	3,759.39	3,129.36	1,450.39	38,893.37	44,922.28	6,028.91
380.03	432.34	394.09	159.74	4,966.45	5,597.46	631.01
2,885.58	4,637.80	3,490.84	1,790.10	47,885.48	55,509.84	7,624.36
2,884.15	4,870.20	3,474.83	1,897.22	41,532.36	44,284.11	2,751.75
1,510.57	2,663.92	1,891.46	1,053.30	23,632.14	26,383.51	2,751.37
1,385.42	2,577.65	1,761.35	1,040.40	22,242.10	24,850.99	2,608.89

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount billed by the Commission against or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system	Average horse-power supplied in year after correction for power factor	Share of operating		
	To Dec. 31, 1944	From Jan. 1, 1945			Cost of power purchased	Operating maintenance and administrative expenses*	Interest
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Port Dover.....	32.50	31.00	120,348.27	548.3	3,453.56	3,950.88	4,928.44
Port Elgin.....	37.00	34.00	126,791.64	550.8	3,469.30	3,227.51	5,166.86
Port Hope.....	30.00	26.00	490,056.24	2,919.8	18,390.84	18,918.71	19,943.35
Port McNicoll...	35.00	32.00	16,183.91	93.4	588.30	543.24	650.94
Port Perry.....	42.50	39.00	79,385.99	328.2	2,067.22	2,288.95	3,242.87
Port Rowan.....	37.00	34.50	31,747.65	121.2	763.40	1,246.59	1,301.49
Port Stanley....	32.50	32.50	150,484.34	680.5	4,286.24	4,634.93	6,170.21
Prescott.....	26.50	25.00	276,483.19	1,611.5	10,150.30	6,108.86	11,317.97
Preston.....	24.00	23.00	719,948.98	4,348.1	27,387.23	18,365.48	29,576.00
Priceville.....	45.00	39.00	2,449.44	10.0	62.99	100.05	98.79
Princeton.....	39.00	37.50	39,281.21	146.6	923.38	1,345.88	1,607.12
Queenston.....	23.00	23.00	19,287.15	134.1	844.65	660.75	790.96
Renfrew.....		28.00	33,714.31	206.1	1,298.15	1,676.81	1,392.91
Richmond.....	45.00	39.00	21,519.64	75.3	474.29	600.42	879.75
Richmond Hill...	25.50	24.00	104,658.34	551.9	3,476.23	2,420.66	4,307.59
Ridgetown.....	31.50	30.50	133,994.62	643.7	4,054.45	4,111.52	5,497.90
Ripley.....	45.00	39.00	38,061.56	114.9	723.72	1,012.82	1,543.77
Riverside.....	30.50	30.00	294,909.86	1,370.9	8,634.84	6,620.74	12,091.87
Rockwood.....	32.50	31.00	34,430.80	153.8	968.73	1,220.99	1,379.61
Rodney.....	41.50	39.00	42,035.64	155.3	978.18	1,939.44	1,723.07
Rosseau.....	45.00	39.00	20,868.10	32.1	202.19	(463.41)	845.71
Russell.....	45.00	39.00	22,722.44	81.7	514.60	800.80	925.53
St. Catharines...	20.50	19.50	4,215,422.53	29,726.4	187,236.64	95,966.03	173,310.18
St. Clair Beach...	35.50	35.00	26,497.46	111.7	703.57	825.14	1,086.07
St. George.....	35.50	35.00	46,208.91	206.5	1,300.67	1,708.94	1,892.75
St. Jacobs.....	28.50	27.50	68,823.77	372.8	2,348.14	1,719.73	2,820.87
St. Marys.....	30.50	30.00	340,425.51	1,747.0	11,003.77	12,799.82	13,964.12
St. Thomas.....	23.50	23.50	1,457,536.02	8,580.2	54,043.81	40,817.76	60,113.20
Sarnia.....	28.00	28.00	1,320,504.34	6,697.5	42,185.31	35,386.12	53,887.68
Scarborough Twp.	26.50	25.00	960,703.67	5,237.5	32,989.26	21,904.29	39,424.31
Seaforth.....	30.50	29.00	213,793.26	1,066.2	6,715.64	6,162.10	8,760.20
Shelburne.....	39.50	36.50	58,430.40	271.5	1,710.09	2,163.28	2,375.15
Simcoe.....	25.50	25.00	541,847.37	3,003.1	18,915.52	13,597.01	22,268.14
Smiths Falls....	25.00	23.50	494,067.97	3,176.2	20,005.82	11,479.29	20,169.32
Smithville.....	31.00	29.50	41,022.79	197.0	1,240.84	1,098.28	1,680.75
Southampton....	35.50	32.50	133,873.11	605.8	3,815.73	3,238.33	5,441.48
Springfield.....	39.50	39.00	19,968.66	77.9	490.67	880.51	818.97
Stamford Twp....	18.50	17.75	363,627.74	3,152.1	19,854.02	8,519.25	14,924.75
Stayner.....	35.50	32.50	60,321.81	303.0	1,908.50	1,834.57	2,450.62
Stirling.....	26.00	23.00	50,485.60	346.6	2,183.12	1,390.08	2,053.52

SYSTEM

S.O.—COST OF POWER

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1945

costs and fixed charges			Revenue received in excess of cost of power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Balance credited or charged to each municipality Credited (Charged)
Provision for renewals	Provision for contingencies and obsolescence	Provision for sinking fund	Credit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,157.67	1,510.15	1,266.78	565.81	15,701.67	17,130.56	1,428.89
1,634.71	1,494.25	1,335.05	568.39	15,759.29	18,942.97	3,183.68
4,950.18	7,494.19	5,157.43	3,013.05	71,841.65	77,838.15	5,996.50
170.87	238.61	170.40	96.38	2,265.98	3,040.67	774.69
1,050.77	896.51	835.89	338.68	10,043.53	12,975.61	2,932.08
333.07	353.14	334.19	125.07	4,206.81	4,233.81	27.00
1,455.91	1,879.82	1,582.98	702.23	19,307.86	22,117.34	2,809.48
2,853.42	4,146.59	2,910.37	1,662.97	35,824.54	40,670.25	4,845.71
5,692.63	11,157.63	7,578.69	4,486.97	95,270.69	100,754.02	5,483.33
32.63	29.05	25.79	10.32	338.98	400.00	61.02
416.99	418.95	413.30	151.28	4,974.34	5,530.48	556.14
141.73	327.91	203.05	138.38	2,830.67	3,083.36	252.69
332.01	522.28	354.88	212.68	5,364.36	5,771.94	407.58
306.04	215.19	226.56	77.70	2,624.55	3,008.16	383.61
885.95	1,461.28	1,101.72	569.53	13,083.90	13,384.92	301.02
1,232.58	1,755.51	1,410.58	664.26	17,398.28	19,747.17	2,348.89
573.25	345.34	400.77	118.57	4,481.10	4,588.67	107.57
2,723.17	3,802.97	3,104.36	1,414.68	35,563.27	41,242.79	5,679.52
323.99	425.07	354.03	158.71	4,513.71	4,801.37	287.66
447.66	448.51	442.26	160.26	5,818.86	6,123.63	304.77
360.73	122.24	217.57	33.13	1,251.90	1,279.60	27.70
318.77	231.94	239.22	84.31	2,946.55	3,266.97	320.42
30,124.71	73,155.79	44,391.01	30,675.78	573,508.58	584,869.58	11,361.00
258.90	315.94	278.94	115.27	3,353.29	3,916.91	563.62
450.94	573.70	486.40	213.10	6,200.30	7,244.83	1,044.53
591.05	985.07	724.58	384.71	8,804.73	10,311.83	1,507.10
2,969.78	4,712.25	3,583.63	1,802.79	47,230.58	52,552.75	5,322.17
11,759.08	22,201.50	15,327.44	8,854.23	195,408.56	201,634.84	6,226.28
11,743.65	18,000.77	13,900.90	6,911.40	168,193.03	187,530.22	19,337.19
7,939.32	13,708.10	10,113.08	5,404.77	120,673.59	132,336.29	11,662.70
1,927.55	2,865.65	2,250.60	1,100.25	27,581.49	31,180.74	3,599.25
724.42	733.72	615.24	280.17	8,041.73	10,045.77	2,004.04
4,580.98	7,849.56	5,702.98	3,099.01	69,815.18	75,335.32	5,520.14
4,603.43	8,018.72	5,198.90	3,277.64	66,197.84	75,387.39	9,189.55
395.67	530.36	431.89	203.29	5,174.50	5,865.73	691.23
1,686.35	1,631.05	1,409.61	625.15	16,597.40	19,976.68	3,379.28
207.80	220.24	210.09	80.39	2,747.89	3,044.43	296.54
1,985.54	7,357.06	3,828.04	3,252.77	53,215.89	56,365.40	3,149.51
710.72	811.26	635.15	312.68	8,038.14	9,991.34	1,953.20
434.11	857.61	531.40	357.67	7,092.17	8,138.42	1,046.25

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount billed by the Commission against or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system	Average horse-power supplied in year after correction for power factor	Share of operating		
	To Dec. 31, 1944	From Jan. 1, 1945			Cost of power purchased	Operating main-tenance and adminis-trative expenses*	Interest
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Stouffville.....	32.50	31.00	77,088.72	360.4	2,270.04	2,349.93	3,156.73
Stratford.....	26.00	25.00	1,414,533.36	7,805.9	49,166.75	38,504.86	58,160.80
Strathroy.....	28.00	26.50	304,728.27	1,619.1	10,198.17	8,267.78	12,447.42
Streetsville.....	30.00	29.00	44,027.32	239.3	1,507.27	1,693.50	1,800.39
Sunderland.....	45.00	39.00	24,327.59	91.4	575.70	976.37	995.02
Sutton.....	39.50	38.00	87,562.63	329.2	2,073.52	3,281.36	3,590.12
Swansea.....	27.50	25.00	499,519.83	3,103.1	19,545.39	21,303.42	20,449.68
Tara.....	39.50	36.50	29,862.40	127.0	799.93	1,005.74	1,217.13
Tavistock.....	30.00	29.00	145,861.06	691.9	4,358.05	4,638.51	5,812.68
Tecumseh.....	32.50	32.00	101,744.11	445.7	2,807.31	2,568.37	4,173.29
Teeswater.....	45.00	39.00	47,726.72	179.1	1,128.09	1,464.02	1,945.73
Thamesford.....	33.00	33.00	53,715.70	248.0	1,562.07	1,702.07	2,198.07
Thamesville.....	33.00	31.50	47,866.67	229.8	1,447.43	1,584.02	1,962.01
Thedford.....	45.00	39.00	41,979.58	133.9	843.39	1,487.47	1,710.53
Thornbury.....		50.00	15,316.50	49.6	312.41	609.14	552.05
Thorndale.....	44.00	39.00	23,897.36	88.0	554.28	1,094.60	977.52
Thornton.....	45.00	39.00	9,031.83	32.8	206.60	264.93	366.46
Thorold.....	23.00	22.50	476,639.94	3,251.5	20,480.11	10,981.58	19,555.24
Tilbury.....	30.50	30.00	303,520.76	1,512.1	9,524.21	8,793.58	12,422.94
Tillsonburg.....	28.50	26.50	303,076.95	1,612.9	10,159.12	7,727.42	12,413.35
Toronto.....	22.60	21.50	60,983,007.40	380,013.3	2,393,576.47	1,322,933.47	2,508,245.05
Toronto Twp.....	27.50	26.00	655,065.10	3,616.9	22,781.64	17,917.56	26,843.68
Tottenham.....	45.00	39.00	45,279.80	121.4	764.66	681.46	1,851.64
Trafalgar							
Area No. 1.....	27.50	27.50	96,128.24	471.4	2,969.19	2,933.68	3,944.05
Trafalgar							
Area No. 2.....	28.50	28.50	37,367.57	179.6	1,131.25	1,066.27	1,538.79
Trenton.....	24.00	21.00	763,113.07	5,490.4	34,582.19	17,921.33	31,044.88
Tweed.....	41.50	39.00	78,332.82	317.2	1,997.94	3,192.22	3,197.42
Uxbridge.....	43.00	39.00	92,067.62	373.8	2,354.44	2,756.75	3,754.78
Victoria Harbour.	36.50	33.50	16,470.35	80.7	508.30	602.56	668.86
Walkerton.....	31.00	28.00	194,576.47	1,102.2	6,942.39	4,538.49	7,872.07
Wallaceburg.....	30.00	30.00	972,676.20	4,899.3	30,859.05	25,943.76	39,717.32
Wardsville.....	44.00	39.00	12,776.96	45.6	287.22	609.64	522.90
Warkworth.....	37.00	34.00	19,17.22	86.9	547.35	778.83	785.44
Waterdown.....	27.00	26.00	48,796.70	273.7	1,723.94	1,381.08	2,000.92
Waterford.....	27.50	27.00	88,884.42	475.4	2,994.39	2,263.19	3,644.48

SYSTEM

S.O.—COST OF POWER

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1945

costs and fixed charges			Revenue received in excess of cost of power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Balance credited or charged to each municipality Credited (Charged)
Provision for renewals	Provision for contingencies and obsolescence	Provision for sinking fund				
			Credit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
709.72	973.42	811.53	371.91	9,899.46	11,253.63	1,354.17
11,851.56	20,582.52	14,890.35	8,055.20	185,101.64	196,424.08	11,322.44
2,657.44	4,247.23	3,200.14	1,670.81	39,347.37	43,296.32	3,948.95
382.69	631.95	463.48	246.94	6,232.34	6,978.64	746.30
337.02	257.61	256.16	94.32	3,303.56	3,649.87	346.31
905.49	940.53	921.84	339.71	11,373.15	12,561.60	1,188.45
3,658.73	7,831.34	5,258.09	3,202.20	74,844.45	78,984.09	4,139.64
389.48	357.21	314.43	131.06	3,952.86	4,696.39	743.53
1,293.88	1,887.46	1,490.71	714.00	18,767.29	20,174.37	1,407.08
973.31	1,251.05	1,071.03	459.93	12,384.43	14,296.65	1,912.22
661.53	529.26	502.54	184.82	6,046.35	7,153.79	1,107.44
513.30	682.79	564.76	255.92	6,967.14	8,183.75	1,216.61
440.49	629.37	503.90	237.14	6,330.08	7,297.49	967.41
468.48	408.44	441.97	138.18	5,222.10	5,358.97	136.87
186.01	140.25	140.65	51.18	1,889.33	2,481.36	592.03
254.68	252.17	251.33	90.81	3,293.77	3,494.69	200.92
126.98	95.65	95.10	33.85	1,121.87	1,309.99	188.12
3,523.87	8,095.93	5,017.65	3,355.34	64,299.04	73,444.16	9,145.12
2,763.93	4,096.73	3,195.17	1,560.39	39,236.17	45,495.70	6,259.53
2,653.60	4,248.33	3,190.43	1,664.41	38,727.84	43,281.25	4,553.41
445,215.39	958,098.05	641,923.15	392,149.85	7,877,841.73	8,242,054.00	364,212.27
5,628.38	9,509.51	6,895.97	3,732.41	85,844.33	94,919.54	9,075.21
706.98	378.36	476.78	125.28	4,734.60	4,849.20	114.60
890.05	1,256.53	1,008.62	486.45	12,515.67	12,964.42	448.75
351.49	485.59	392.97	185.34	4,781.02	5,119.32	338.30
6,144.30	13,460.15	8,032.19	5,665.75	105,519.29	117,993.91	12,474.62
1,039.89	884.92	824.65	327.33	10,809.71	12,493.60	1,683.89
1,229.80	1,026.27	969.42	385.74	11,705.72	14,797.39	3,091.67
197.38	216.19	173.42	83.28	2,283.43	2,738.03	454.60
2,088.29	2,840.57	2,048.75	1,137.40	25,193.16	31,404.38	6,211.22
8,685.16	13,180.94	10,204.73	5,055.77	123,535.19	146,977.75	23,442.56
136.61	134.56	134.53	47.06	1,778.40	1,815.34	36.94
239.11	237.26	201.82	89.68	2,700.13	2,993.41	293.28
414.10	715.31	513.82	282.44	6,466.73	7,161.15	694.42
771.81	1,263.08	935.52	490.58	11,381.89	12,875.62	1,493.73

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount billed by the Commission against or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system	Average horse-power supplied in year after correction for power factor	Share of operating		
	To Dec. 31, 1944	From Jan. 1, 1945			Cost of power purchased	Operating maintenance and administrative expenses*	Interest
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Waterloo.....	24.00	23.00	1,082,133.14	6,460.2	40,690.64	25,222.11	44,466.62
Watford.....	35.50	35.50	95,439.57	406.3	2,559.15	3,265.86	3,904.35
Waubashene....	33.00	30.00	21,798.98	115.8	729.39	659.28	887.77
Welland.....	20.00	19.50	1,828,217.34	12,697.7	79,978.56	41,586.48	75,422.38
Wellesley.....	33.50	32.00	30,045.89	132.9	837.09	957.78	1,228.85
Wellington.....	33.00	31.00	55,593.28	277.1	1,745.36	1,447.35	2,260.54
West Lorne.....	35.50	35.50	57,832.12	258.3	1,626.95	2,328.02	2,369.00
Weston.....	23.00	22.50	870,125.76	5,292.0	33,332.54	19,044.87	35,786.51
Westport.....	45.00	39.00	41,586.47	118.5	746.39	856.50	1,698.76
Wheatley.....	41.00	39.00	65,417.54	220.0	1,385.71	2,227.93	2,687.81
Whitby.....	29.00	25.50	271,041.97	1,564.1	9,851.75	7,633.41	11,022.03
Warton.....	45.00	39.00	102,329.42	368.6	2,321.69	2,831.90	4,178.88
Williamsburg....	30.00	28.50	19,248.64	106.3	669.55	597.09	788.24
Winchester.....	31.00	28.50	76,384.91	385.2	2,426.25	2,353.45	3,056.68
Windermere.....	45.00	39.00	17,708.86	53.6	337.61	495.35	709.00
Windsor.....	26.00	25.00	10,248,543.62	54,430.5	342,839.49	215,274.18	420,771.43
Wingham.....	40.50	37.50	199,739.35	814.9	5,132.79	5,142.51	8,115.74
Woodbridge.....	28.50	27.50	134,751.55	696.9	4,389.54	3,737.37	5,507.48
Woodstock.....	24.50	24.50	1,549,267.91	9,169.2	57,753.72	38,026.49	63,662.78
Woodville.....	45.00	39.00	20,332.36	75.5	475.55	753.83	831.44
Wyoming.....	40.00	39.00	26,833.39	103.6	652.54	907.71	1,099.52
York Twp.....	24.50	23.00	3,305,327.12	20,734.5	130,599.67	74,116.71	135,130.02
Zurich.....	42.00	39.00	38,906.07	136.8	861.66	1,301.80	1,589.05
Ontario Reformatory.....			56,442.84	320.0	2,015.57	1,592.17	2,307.10
Toronto Transportation Comm...			116,838.14	709.9	4,471.42	2,891.37	4,707.97
Totals—Municipalities.....			197,201,223.59	1,209,289.9	7,709,589.73	4,687,503.95	8,092,735.21
Totals—Rural power district....			20,048,229.44	100,628.0	659,139.14	514,155.72	823,626.43
Totals—Companies.....			46,115,722.98	283,053.7	2,451,745.34	1,444,717.74	1,888,405.94
Totals—Local distribution sys...			722,294.78	2,344.3	11,928.42	70,037.98	29,550.53
			264,087,470.79				
Non-operating capital.....			2,776,135.60				
Grand Totals.....			266,863,606.39	1,595,315.9	10,832,402.63	6,716,415.39	10,834,318.11

SYSTEM

S.O.—COST OF POWER

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1945

costs and fixed charges			Revenue received in excess of cost of power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Balance credited or charged to each municipality Credited (Charged)
Provision for renewals	Provision for contingencies and obsolescence	Provision for sinking fund				
			Credit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
8,580.09	16,600.89	11,389.32	6,666.52	140,283.15	149,677.64	9,394.49
942.40	1,145.27	1,004.74	419.28	12,402.49	14,423.94	2,021.45
246.53	307.45	229.53	119.50	2,940.45	3,515.81	575.36
13,246.83	31,417.26	19,245.70	13,103.23	247,793.98	248,705.32	911.34
293.28	367.68	316.27	137.14	3,863.81	4,284.84	421.03
651.49	738.99	585.13	285.95	7,142.91	8,670.24	1,527.33
563.31	715.76	608.36	266.55	7,944.85	9,168.48	1,223.63
6,496.04	13,396.91	9,160.75	5,461.01	111,756.61	119,528.24	7,771.63
634.81	369.55	437.77	122.28	4,621.50	4,738.40	116.90
709.03	651.53	689.14	227.03	8,124.12	8,654.47	530.35
2,822.26	3,986.73	2,852.54	1,614.06	36,554.66	40,776.88	4,222.22
1,443.55	1,050.91	1,077.48	380.37	12,524.04	14,735.95	2,211.91
208.44	279.77	202.62	109.69	2,636.02	3,053.00	416.98
859.30	1,029.62	788.99	397.50	10,116.79	11,115.90	999.11
259.61	161.29	182.85	55.31	2,090.40	2,120.20	29.80
86,211.91	144,712.17	107,875.89	56,168.85	1,261,516.22	1,370,156.62	108,640.40
2,661.58	2,254.93	2,103.14	840.93	24,569.76	30,941.45	6,371.69
1,152.36	1,848.48	1,414.79	719.16	17,330.86	19,275.72	1,944.86
12,479.94	23,696.75	16,308.29	9,462.04	202,465.93	224,645.78	22,179.85
283.13	213.38	214.09	77.91	2,693.51	3,024.89	331.38
277.76	297.73	282.50	106.91	3,410.85	4,054.27	643.42
23,885.13	52,138.86	34,792.58	21,396.70	429,266.27	482,628.29	53,362.02
419.46	398.55	407.22	141.17	4,836.57	5,394.37	557.80
471.16	833.57	594.15	330.22	7,483.50	8,639.36	1,155.86
928.72	1,808.96	1,229.95	732.57	15,305.82	20,785.88	5,480.06
1,592,174.34	3,034,081.96	2,075,408.22	(1,227,568.44)	25,963,924.97	27,760,643.75	1,797,094.60 (375.82)
195,488.96	269,837.89	209,843.37	(103,841.77)	2,568,249.74	2,568,249.74	.....
381,129.27	7,328,423.33	481,127.80	1,316,836.82	15,292,386.24	15,292,386.24	.....
10,308.55	8,152.86	7,516.45	14,573.39	152,068.18	152,068.18	.....
2,179,101.12	10,640,496.04	2,773,895.84	.....	43,976,629.13	45,773,347.91	1,797,094.60 (375.82)

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay and

Statement showing the net Credit or Charge to each Municipality in respect of and adjustments made during the year. Also the net amount Credited ended October 31, 1945, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1944	
		Credit	Charge
		\$ c.	\$ c.
Acton.....	Jan. 1913	6,376.66	.....
Agincourt.....	Nov. 1922	988.92	.....
Ailsa Craig.....	Jan. 1916	504.82	.....
Alexandria.....	Jan. 1921	1,433.99	.....
Alliston.....	June 1918	3,422.98	.....
Almonte.....	Feb. 1945	.....	.....
Alvinston.....	April 1922	761.31	.....
Amherstburg.....	Nov. 1925	5,245.64	.....
Ancaster Township.....	May 1923	1,684.02	.....
Apple Hill.....	April 1921	487.34	.....
Arkona.....	Dec. 1926	425.17	.....
Arnprior.....	Jan. 1939	8,799.20	.....
Arthur.....	Dec. 1916	1,340.62	.....
Athens.....	Jan. 1929	717.77	.....
Aurora.....	April 1943	4,217.88	.....
Aylmer.....	Mar. 1918	3,220.64	.....
Ayr.....	Jan. 1915	855.83	.....
Baden.....	May 1912	2,214.62	.....
Barrie.....	April 1913	30,967.24	.....
Bath.....	Nov. 1931	297.58	.....
Beachville.....	Aug. 1912	2,904.11	.....
Beamsville.....	May 1937	1,836.93	.....
Beaverton.....	Nov. 1914	1,985.37	.....
Beeton.....	Aug. 1918	1,274.62	.....
Belle River.....	Dec. 1922	660.84	.....
Belleville.....	April 1929	42,395.32	.....
Blenheim.....	Nov. 1915	2,311.77	.....
Bloomfield.....	April 1919	913.26	.....
Blyth.....	July 1924	705.04	.....
Bolton.....	Feb. 1915	571.31	.....
Bothwell.....	Sept. 1915	614.31	.....
Bowmanville.....	Oct. 1931	15,469.47	.....
Bradford.....	Oct. 1918	1,621.62	.....
Braeside.....	Jan. 1945	.....	.....
Brampton.....	Nov. 1911	8,575.68	.....
Brantford.....	Feb. 1914	46,012.05	.....
Brantford Township.....	May 1924	3,043.07	.....
Brechin.....	Jan. 1915	539.88	.....
Bridgeport.....	Mar. 1928	566.95	.....
Brigden.....	Jan. 1918	755.78	.....

SYSTEM

S.O.—CREDIT OR CHARGE

Eastern Ontario Divisions

power supplied to it to October 31, 1944, the cash receipts and payments thereon or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1945

Cash receipts and payments on account of such credits and charges, also adjustments made during the year		Net amount credited or charged upon annual adjustment in respect of power supplied in the year ended October 31, 1945		Accumulated amount standing as a credit or charge on October 31, 1945	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	6,376.66	5,329.80	.....	5,329.80	.....
.....	988.92	722.89	.....	722.89	.....
.....	504.82	718.24	.....	718.24	.....
.....	1,433.99	612.37	.....	612.37	.....
.....	3,422.98	3,195.17	.....	3,195.17	.....
.....	.....	.....	375.82	.....	375.82
.....	761.31	133.82	.....	133.82	.....
.....	5,245.64	5,385.92	.....	5,385.92	.....
.....	1,684.02	1,418.29	.....	1,418.29	.....
.....	487.34	189.56	.....	189.56	.....
.....	425.17	64.49	.....	64.49	.....
.....	8,799.20	4,250.96	.....	4,250.96	.....
.....	1,340.62	181.52	.....	181.52	.....
.....	717.77	471.60	.....	471.60	.....
.....	4,217.88	5,004.29	.....	5,004.29	.....
.....	3,220.64	3,300.85	.....	3,300.85	.....
.....	855.83	945.96	.....	945.96	.....
.....	2,214.62	1,812.09	.....	1,812.09	.....
.....	30,967.24	22,274.35	.....	22,274.35	.....
.....	297.58	49.54	.....	49.54	.....
.....	2,904.11	2,401.92	.....	2,401.92	.....
.....	1,836.93	1,609.74	.....	1,609.74	.....
.....	1,985.37	2,227.73	.....	2,227.73	.....
.....	1,274.62	93.85	.....	93.85	.....
.....	660.84	365.05	.....	365.05	.....
.....	42,395.32	22,676.93	.....	22,676.93	.....
.....	2,311.77	2,579.15	.....	2,579.15	.....
.....	913.26	763.03	.....	763.03	.....
.....	705.04	740.05	.....	740.05	.....
.....	571.31	626.36	.....	626.36	.....
.....	614.31	234.75	.....	234.75	.....
.....	15,469.47	4,927.08	.....	4,927.08	.....
.....	1,621.62	1,775.70	.....	1,775.70	.....
.....	.....	545.43	.....	545.43	.....
.....	8,575.68	6,696.96	.....	6,696.96	.....
.....	46,012.05	20,874.90	.....	20,874.90	.....
.....	3,043.07	2,849.92	.....	2,849.92	.....
.....	539.88	374.25	.....	374.25	.....
.....	566.95	476.04	.....	476.04	.....
.....	755.78	297.27	.....	297.27	.....

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay and

Statement showing the net Credit or Charge to each Municipality in respect of and adjustments made during the year. Also the net amount Credited ended October 31, 1945, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1944	
		Credit	Charge
		\$ c.	\$ c.
Brighton	Nov. 1929	2,469.18	.....
Brockville	April 1915	18,331.81	.....
Brussels	July 1924	836.44	.....
Burford	June 1915	992.68	.....
Burgessville	Nov. 1916	261.11	.....
Burlington	Jan. 1945	.....	.....
Caledonia	Oct. 1912	809.87	.....
Campbellville	Jan. 1925	283.83	.....
Cannington	Nov. 1914	1,555.06	.....
Cardinal	July 1930	1,776.51	.....
Carleton Place	May 1919	9,841.89	.....
Cayuga	Nov. 1924	124.60	.....
Chatham	Feb. 1915	22,308.01	.....
Chatsworth	Dec. 1915	614.57	.....
Chesley	July 1916	4,350.54	.....
Chesterville	April 1914	1,748.02	.....
Chippawa	Sept. 1919	1,014.66	.....
Clifford	May 1924	609.46	.....
Clinton	Mar. 1914	3,216.18	.....
Cobden	Nov. 1925	810.04	.....
Cobourg	Jan. 1932	13,440.63	.....
Colborne	Jan. 1933	1,453.43	.....
Coldwater	Mar. 1913	1,126.18	.....
Collingwood	Mar. 1913	22,289.22	.....
Comber	May 1915	619.36	.....
Cookstown	May 1918	808.43	.....
Cottam	Nov. 1926	382.53	.....
Courtright	Dec. 1923	318.80	.....
Creemore	Nov. 1914	1,192.85	.....
Dashwood	Sept. 1917	457.85	.....
Delaware	Mar. 1915	308.91	.....
Delhi	May 1938	2,077.32	.....
Deseronto	Jan. 1931	2,394.23	.....
Dorchester	Dec. 1914	467.84	.....
Drayton	Mar. 1918	871.86	.....
Dresden	April 1915	2,611.97	.....
Drumbo	Dec. 1914	560.48	.....
Dublin	Oct. 1917	243.38	.....
Dundalk	Dec. 1915	1,520.82	.....
Dundas	Jan. 1911	5,127.92	.....

SYSTEM

S.O.—CREDIT OR CHARGE

Eastern Ontario Divisions

power supplied to it to October 31, 1944, the cash receipts and payments thereon or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1945

Cash receipts and payments on account of such credits and charges, also adjustments made during the year		Net amount credited or charged upon annual adjustment in respect of power supplied in the year ended October 31, 1945		Accumulated amount standing as a credit or charge on October 31, 1945	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	2,469.18	1,817.61	.....	1,817.61	.....
.....	18,331.81	13,596.89	.....	13,596.89	.....
.....	836.44	761.62	.....	761.62	.....
.....	992.68	882.65	.....	882.65	.....
.....	261.11	63.58	.....	63.58	.....
.....	.....	1,963.22	.....	1,963.22	.....
.....	809.87	977.52	.....	977.52	.....
.....	283.83	44.53	.....	44.53	.....
.....	1,555.06	1,332.69	.....	1,332.69	.....
.....	1,776.51	1,329.88	.....	1,329.88	.....
.....	9,841.89	7,895.69	.....	7,895.69	.....
.....	124.60	574.93	.....	574.93	.....
.....	22,308.01	19,605.88	.....	19,605.88	.....
.....	614.57	640.80	.....	640.80	.....
.....	4,350.54	3,588.34	.....	3,588.34	.....
.....	1,748.02	954.09	.....	954.09	.....
.....	1,014.66	975.35	.....	975.35	.....
.....	609.46	101.93	.....	101.93	.....
.....	3,216.18	2,434.13	.....	2,434.13	.....
.....	810.04	942.86	.....	942.86	.....
.....	13,440.63	7,345.09	.....	7,345.09	.....
.....	1,453.43	1,090.28	.....	1,090.28	.....
.....	1,126.18	1,492.13	.....	1,492.13	.....
.....	22,289.22	14,836.02	.....	14,836.02	.....
.....	619.36	945.67	.....	945.67	.....
.....	808.43	652.27	.....	652.27	.....
.....	382.53	528.13	.....	528.13	.....
.....	318.80	50.68	.....	50.68	.....
.....	1,192.85	1,281.18	.....	1,281.18	.....
.....	457.85	479.16	.....	479.16	.....
.....	308.91	268.90	.....	268.90	.....
.....	2,077.32	2,489.98	.....	2,489.98	.....
.....	2,394.23	1,556.12	.....	1,556.12	.....
.....	467.84	696.59	.....	696.59	.....
.....	871.86	153.43	.....	153.43	.....
.....	2,611.97	2,259.81	.....	2,259.81	.....
.....	560.48	299.12	.....	299.12	.....
.....	243.38	249.79	.....	249.79	.....
.....	1,520.82	1,206.42	.....	1,206.42	.....
.....	5,127.92	5,206.60	.....	5,206.60	.....

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay and

Statement showing the net Credit or Charge to each Municipality in respect of and adjustments made during the year. Also the net amount Credited ended October 31, 1945, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1944	
		Credit	Charge
		\$ c.	\$ c.
Dunnville.....	June 1918	2,017.01	.....
Durham.....	Dec. 1915	3,249.06	.....
Dutton.....	Sept. 1915	928.55	.....
East York Township.....	July 1925	44,764.17	.....
Elmira.....	Nov. 1913	6,517.12	.....
Elmvale.....	June 1913	1,101.26	.....
Elmwood.....	April 1918	328.33	.....
Elora.....	Nov. 1914	1,866.47	.....
Embro.....	Jan. 1915	918.50	.....
Erieau.....	July 1924	904.74	.....
Erie Beach.....	July 1925	121.01	.....
Essex.....	Nov. 1923	2,633.84	.....
Etobicoke Township.....	Aug. 1917	16,905.13	.....
Exeter.....	June 1916	3,154.79	.....
Fergus.....	Nov. 1914	5,226.41	.....
Finch.....	Feb. 1928	659.63	.....
Flesherton.....	Dec. 1915	562.75	.....
Fonthill.....	June 1926	898.45	.....
Forest.....	Mar. 1917	3,073.55	.....
Forest Hill.....	Jan. 1938	25,030.04	.....
Galt.....	May 1911	24,089.59	.....
Georgetown.....	Sept. 1913	7,847.82	.....
Glencoe.....	Aug. 1920	1,108.28	.....
Goderich.....	Feb. 1914	7,809.53	.....
Grand Valley.....	Dec. 1916	1,260.99	.....
Granton.....	July 1916	347.04	.....
Gravenhurst.....	Nov. 1915	2,685.50	.....
Grimsby.....	Jan. 1942	1,757.84	.....
Guelph.....	Dec. 1910	18,817.03	.....
Hagersville.....	Sept. 1913	1,164.32	.....
Hamilton.....	Feb. 1911	279,308.16	.....
Hanover.....	Sept. 1916	9,914.19	.....
Harriston.....	July 1916	1,956.97	.....
Harrow.....	Nov. 1923	2,862.57	.....
Hastings.....	June 1931	955.45	.....
Havelock.....	Feb. 1921	962.13	.....
Hensall.....	Jan. 1917	861.99	.....
Hespeler.....	Feb. 1911	6,852.23	.....
Highgate.....	Dec. 1916	465.05	.....
Holstein.....	May 1916	169.59	.....

SYSTEM

S.O.—CREDIT OR CHARGE

Eastern Ontario Divisions

power supplied to it to October 31, 1944, the cash receipts and payments thereon or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1945

Cash receipts and payments on account of such credits and charges, also adjustments made during the year		Net amount credited or charged upon annual adjustment in respect of power supplied in the year ended October 31, 1945		Accumulated amount standing as a credit or charge on October 31, 1945	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	2,017.01	2,558.49	.....	2,558.49	.....
.....	3,249.06	2,350.28	.....	2,350.28	.....
.....	928.55	1,096.10	.....	1,096.10	.....
.....	44,764.17	30,172.45	.....	30,172.45	.....
.....	6,517.12	6,422.81	.....	6,422.81	.....
.....	1,101.26	862.96	.....	862.96	.....
.....	328.33	104.72	.....	104.72	.....
.....	1,866.47	1,468.81	.....	1,468.81	.....
.....	313.50	394.56	.....	394.56	.....
.....	904.74	952.38	.....	952.38	.....
.....	121.01	10.15	.....	10.15	.....
.....	2,633.84	2,475.04	.....	2,475.04	.....
.....	16,905.13	15,928.74	.....	15,928.74	.....
.....	3,154.79	2,472.85	.....	2,472.85	.....
.....	5,226.41	2,967.01	.....	2,967.01	.....
.....	659.63	643.53	.....	643.53	.....
.....	562.75	596.28	.....	596.28	.....
.....	898.45	870.35	.....	870.35	.....
.....	3,073.55	4,397.91	.....	4,397.91	.....
.....	25,030.04	12,060.39	.....	12,060.39	.....
.....	24,089.59	7,342.41	.....	7,342.41	.....
.....	7,847.82	7,167.26	.....	7,167.26	.....
.....	1,108.28	409.15	.....	409.15	.....
.....	7,809.53	6,105.75	.....	6,105.75	.....
.....	1,260.99	875.10	.....	875.10	.....
.....	347.04	381.98	.....	381.98	.....
.....	2,685.50	4,064.76	.....	4,064.76	.....
.....	1,757.84	1,902.25	.....	1,902.25	.....
.....	18,817.03	13,683.94	.....	13,683.94	.....
.....	1,164.32	2,017.01	.....	2,017.01	.....
.....	279,308.16	55,430.60	.....	55,430.60	.....
.....	9,914.19	7,634.36	.....	7,634.36	.....
.....	1,956.97	1,240.98	.....	1,240.98	.....
.....	2,862.57	3,225.43	.....	3,225.43	.....
.....	955.45	648.97	.....	648.97	.....
.....	962.13	404.58	.....	404.58	.....
.....	861.99	531.10	.....	531.10	.....
.....	6,852.23	5,790.42	.....	5,790.42	.....
.....	465.05	435.86	.....	435.86	.....
.....	169.59	24.61	.....	24.61	.....

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay and

Statement showing the net Credit or Charge to each Municipality in respect of and adjustments made during the year. Also the net amount Credited ended October 31, 1945, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1944	
		Credit	Charge
		\$ c.	\$ c.
Humberstone.....	Oct. 1924	1,165.46	
Huntsville.....	Sept. 1916	1,474.30	
Ingersoll.....	May 1911	9,272.55	
Iroquois.....	Feb. 1940	1,336.25	
Jarvis.....	Feb. 1924	515.49	
Kemptville.....	Dec. 1921	2,203.80	
Kincardine.....	Mar. 1921	6,607.24	
Kingston.....	Nov. 1937	91,967.85	
Kingsville.....	Nov. 1923	2,760.24	
Kirkfield.....	June 1920	193.83	
Kitchener.....	Jan. 1911	57,796.66	
Lakefield.....	Aug. 1920	2,670.64	
Lambeth.....	April 1915	523.29	
Lanark.....	Sept. 1921	437.75	
Lancaster.....	May 1921	330.29	
LaSalle.....	Nov. 1925	1,304.73	
Leamington.....	Nov. 1923	7,521.63	
Lindsay.....	Mar. 1928	19,150.79	
Listowel.....	June 1916	4,880.85	
London.....	Jan. 1911	56,415.44	
London Township.....	Jan. 1925	2,095.74	
Long Branch.....	Jan. 1931	3,905.50	
Lucan.....	Feb. 1915	801.49	
Lucknow.....	Jan. 1921	4,526.69	
Lynden.....	Nov. 1915	559.96	
Madoc.....	Jan. 1930	1,674.50	
Markdale.....	Mar. 1916	1,262.78	
Markham.....	April 1920	1,483.47	
Marmora.....	Jan. 1921	776.61	
Martintown.....	May 1921	324.83	
Maxville.....	Feb. 1921	832.83	
Meaford.....	Jan. 1924	5,875.97	
Merlin.....	Dec. 1922	411.49	
Merritton.....	Nov. 1920	19,070.81	
Midland.....	July 1911	33,015.39	
Mildmay.....	Dec. 1932	1,269.10	
Millbrook.....	Dec. 1938	545.16	
Milton.....	April 1913	6,290.82	
Milverton.....	June 1916	1,061.10	
Mimico.....	May 1912	5,223.35	

SYSTEM

S.O.—CREDIT OR CHARGE

Eastern Ontario Divisions

power supplied to it to October 31, 1944, the cash receipts and payments thereon or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1945

Cash receipts and payments on account of such credits and charges, also adjustments made during the year		Net amount credited or charged upon annual adjustment in respect of power supplied in the year ended October 31, 1945		Accumulated amount standing as a credit or charge on October 31, 1945	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	1,165.46	820.82	.....	820.82	.....
.....	1,474.30	3,264.16	.....	3,264.16	.....
.....	9,272.55	6,893.27	.....	6,893.27	.....
.....	1,336.25	1,171.77	.....	1,171.77	.....
.....	515.49	103.87	.....	103.87	.....
.....	2,203.80	124.02	.....	124.02	.....
.....	6,607.24	5,219.72	.....	5,219.72	.....
.....	91,967.85	44,192.22	.....	44,192.22	.....
.....	2,760.24	3,392.05	.....	3,392.05	.....
.....	193.83	24.55	.....	24.55	.....
.....	57,796.66	33,743.98	.....	33,743.98	.....
.....	2,670.64	589.41	.....	589.41	.....
.....	523.29	437.53	.....	437.53	.....
.....	437.75	21.46	.....	21.46	.....
.....	330.29	65.21	.....	65.21	.....
.....	1,304.73	1,411.72	.....	1,411.72	.....
.....	7,521.63	8,464.26	.....	8,464.26	.....
.....	19,150.79	9,026.15	.....	9,026.15	.....
.....	4,880.85	4,546.22	.....	4,546.22	.....
.....	56,415.44	39,236.56	.....	39,236.56	.....
.....	2,095.74	1,515.12	.....	1,515.12	.....
.....	3,905.50	3,480.49	.....	3,480.49	.....
.....	801.49	884.12	.....	884.12	.....
.....	4,526.69	2,360.79	.....	2,360.79	.....
.....	559.96	617.37	.....	617.37	.....
.....	1,674.50	1,222.78	.....	1,222.78	.....
.....	1,262.78	1,143.30	.....	1,143.30	.....
.....	1,483.47	1,317.18	.....	1,317.18	.....
.....	776.61	689.07	.....	689.07	.....
.....	324.83	328.29	.....	328.29	.....
.....	832.83	285.22	.....	285.22	.....
.....	5,875.97	4,891.95	.....	4,891.95	.....
.....	411.49	396.13	.....	396.13	.....
.....	19,070.81	9,791.55	.....	9,791.55	.....
.....	33,015.39	22,613.10	.....	22,613.10	.....
.....	1,269.10	884.30	.....	884.30	.....
.....	545.16	313.33	.....	313.33	.....
.....	6,290.82	6,094.48	.....	6,094.48	.....
.....	1,061.10	1,084.18	.....	1,084.18	.....
.....	5,223.35	4,833.56	.....	4,833.56	.....

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay and

Statement showing the net Credit or Charge to each Municipality in respect of and adjustments made during the year. Also the net amount Credited ended October 31, 1945, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1944	
		Credit	Charge
		\$ c.	\$ c.
Mitchell.....	Sept. 1911	3,054.32	.....
Moorefield.....	Mar. 1918	346.82	.....
Morrisburg.....	June 1938	1,876.08	.....
Mount Brydges.....	Mar. 1915	324.20	.....
Mount Forest.....	Dec. 1915	4,140.27	.....
Napanee.....	Nov. 1929	7,937.83	.....
Neustadt.....	Dec. 1918	434.62	.....
Newbury.....	Mar. 1921	212.66	.....
Newcastle.....	Jan. 1937	906.86	.....
New Hamburg.....	Mar. 1911	2,676.83	.....
Newmarket.....	April 1945	.....	.....
New Toronto.....	Feb. 1914	26,357.80	.....
Niagara Falls.....	Dec. 1915	20,607.86	.....
Niagara-on-the-Lake.....	Aug. 1919	2,431.86	.....
North York Township.....	Nov. 1923	43,517.24	.....
Norwich.....	May 1912	1,861.70	.....
Norwood.....	Feb. 1921	1,043.33	.....
Oil Springs.....	Feb. 1918	831.97	.....
Omeme.....	Jan. 1940	1,129.50	.....
Orangeville.....	July 1916	6,601.68	.....
Orono.....	Nov. 1938	446.07	.....
Oshawa.....	Feb. 1929	105,819.89	.....
Ottawa.....	Jan. 1914	52,451.00	.....
Otterville.....	Feb. 1916	549.96	.....
Owen Sound.....	Dec. 1915	42,986.59	.....
Paisley.....	Sept. 1923	904.38	.....
Palmerston.....	July 1916	1,534.04	.....
Paris.....	Feb. 1914	4,854.50	.....
Parkhill.....	May 1920	1,142.59	.....
Penetanguishene.....	July 1911	7,221.62	.....
Perth.....	Feb. 1919	10,123.22	.....
Peterborough.....	Mar. 1913	66,249.54	.....
Petrolia.....	May 1916	5,780.10	.....
Picton.....	April 1919	8,151.98	.....
Plattsville.....	Dec. 1914	818.67	.....
Point Edward.....	Nov. 1916	7,440.20	.....
Port Colborne.....	Mar. 1920	4,182.69	.....
Port Credit.....	Aug. 1912	4,278.45	.....
Port Dalhousie.....	Nov. 1912	3,931.14	.....
Port Dover.....	Dec. 1921	2,160.98	.....

SYSTEM

S.O.—CREDIT OR CHARGE

Eastern Ontario Divisions

power supplied to it to October 31, 1944, the cash receipts and payments thereon or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1945

Cash receipts and payments on account of such credits and charges, also adjustments made during the year		Net amount credited or charged upon annual adjustment in respect of power supplied in the year ended October 31, 1945		Accumulated amount standing as a credit or charge on October 31, 1945	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	3,054.32	2,239.80	.....	2,239.80	.....
.....	346.82	54.76	.....	54.76	.....
.....	1,876.08	1,505.21	.....	1,505.21	.....
.....	324.20	335.88	.....	335.88	.....
.....	4,140.27	3,975.27	.....	3,975.27	.....
.....	7,937.83	4,608.32	.....	4,608.32	.....
.....	434.62	307.01	.....	307.01	.....
.....	212.66	22.25	.....	22.25	.....
.....	906.86	540.16	.....	540.16	.....
.....	2,676.83	1,959.85	.....	1,959.85	.....
.....	.....	3,774.27	.....	3,774.27	.....
.....	26,357.80	8,590.47	.....	8,590.47	.....
.....	20,607.86	10,664.81	.....	10,664.81	.....
.....	2,431.86	2,275.57	.....	2,275.57	.....
.....	43,517.24	23,178.59	.....	23,178.59	.....
.....	1,861.70	1,719.02	.....	1,719.02	.....
.....	1,043.33	405.50	.....	405.50	.....
.....	831.97	1,044.64	.....	1,044.64	.....
.....	1,129.50	888.45	.....	888.45	.....
.....	6,601.68	6,722.42	.....	6,722.42	.....
.....	446.07	570.82	.....	570.82	.....
.....	105,819.89	50,942.55	.....	50,942.55	.....
.....	52,451.00	54,763.89	.....	54,763.89	.....
.....	549.56	311.80	.....	311.80	.....
.....	42,986.59	32,343.55	.....	32,343.55	.....
.....	904.38	869.90	.....	869.90	.....
.....	1,534.04	1,874.68	.....	1,874.68	.....
.....	4,854.50	1,995.76	.....	1,995.76	.....
.....	1,142.59	875.66	.....	875.66	.....
.....	7,221.62	5,962.45	.....	5,962.45	.....
.....	10,123.22	5,228.47	.....	5,228.47	.....
.....	66,249.54	35,268.48	.....	35,268.48	.....
.....	5,780.10	5,534.07	.....	5,534.07	.....
.....	8,151.98	6,028.91	.....	6,028.91	.....
.....	818.67	631.01	.....	631.01	.....
.....	7,440.20	7,624.36	.....	7,624.36	.....
.....	4,182.69	2,751.75	.....	2,751.75	.....
.....	4,278.45	2,751.37	.....	2,751.37	.....
.....	3,931.14	2,608.89	.....	2,608.89	.....
.....	2,160.98	1,428.89	.....	1,428.89	.....

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay and

Statement showing the net Credit or Charge to each Municipality in respect of and adjustments made during the year. Also the net amount Credited ended October 31, 1945, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1944	
		Credit	Charge
		\$ c.	\$ c.
Port Elgin.....	Mar. 1931	3,735.29	.....
Port Hope.....	Nov. 1929	14,435.26	.....
Port McNicoll.....	Jan. 1915	785.50	.....
Port Perry.....	Sept. 1922	2,055.33	.....
Port Rowan.....	Nov. 1926	583.76	.....
Port Stanley.....	April 1912	2,317.11	.....
Prescott.....	Dec. 1913	5,999.00	.....
Preston.....	Jan. 1911	10,152.95	.....
Priceville.....	Mar. 1920	80.00	.....
Princeton.....	Jan. 1915	769.26	.....
Queenston.....	Mar. 1921	346.52	.....
Renfrew.....	Dec. 1944	.....	.....
Richmond.....	Aug. 1928	461.37	.....
Richmond Hill.....	June 1925	1,011.44	.....
Ridgetown.....	Dec. 1915	2,266.82	.....
Ripley.....	Jan. 1921	956.53	.....
Riverside.....	Nov. 1922	5,417.91	.....
Rockwood.....	Sept. 1913	573.93	.....
Rodney.....	Feb. 1917	667.36	.....
Rosseau.....	July 1931	269.44	.....
Russell.....	Feb. 1926	450.25	.....
St. Catharines.....	April 1914	50,116.74	.....
St. Clair Beach.....	Nov. 1922	496.28	.....
St. George.....	Sept. 1915	942.42	.....
St. Jacobs.....	Sept. 1917	1,333.38	.....
St. Marys.....	May 1911	5,951.55	.....
St. Thomas.....	April 1911	2,113.53	.....
Sarnia.....	Dec. 1916	37,174.43	.....
Scarborough Township.....	Aug. 1918	14,512.64	.....
Seaforth.....	Nov. 1911	4,207.96	.....
Shelburne.....	July 1916	2,061.35	.....
Simcoe.....	Aug. 1915	6,180.24	.....
Smiths Falls.....	Sept. 1918	13,126.74	.....
Smithville.....	Nov. 1940	832.27	.....
Southampton.....	Feb. 1931	4,170.26	.....

SYSTEM

S.O.—CREDIT OR CHARGE

Eastern Ontario Divisions

power supplied to it to October 31, 1944, the cash receipts and payments thereon or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1945

Cash receipts and payments on account of such credits and charges, also adjustments made during the year		Net amount credited or charged upon annual adjustment in respect of power supplied in the year ended October 31, 1945		Accumulated amount standing as a credit or charge on October 31, 1945	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	3,735.29	3,183.68	.....	3,183.68	.....
.....	14,435.26	5,996.50	.....	5,996.50	.....
.....	785.50	774.69	.....	774.69	.....
.....	2,055.33	2,932.08	.....	2,932.08	.....
.....	583.76	27.00	.....	27.00	.....
.....	2,317.11	2,809.48	.....	2,809.48	.....
.....	5,999.00	4,845.71	.....	4,845.71	.....
.....	10,152.95	5,483.33	.....	5,483.33	.....
.....	80.00	61.02	.....	61.02	.....
.....	769.26	556.14	.....	556.14	.....
.....	346.52	252.69	.....	252.69	.....
.....	461.37	407.58	.....	407.58	.....
.....	1,011.44	383.61	.....	383.61	.....
.....	2,266.82	301.02	.....	301.02	.....
.....	.....	2,348.89	.....	2,348.89	.....
.....	956.53	107.57	.....	107.57	.....
.....	5,417.91	5,679.52	.....	5,679.52	.....
.....	573.93	287.66	.....	287.66	.....
.....	667.36	304.77	.....	304.77	.....
.....	269.44	27.70	.....	27.70	.....
.....	450.25	320.42	.....	320.42	.....
.....	50,116.74	11,361.00	.....	11,361.00	.....
.....	496.28	563.62	.....	563.62	.....
.....	942.42	1,044.53	.....	1,044.53	.....
.....	1,333.38	1,507.10	.....	1,507.10	.....
.....	5,951.55	5,322.17	.....	5,322.17	.....
1,131.62	3,245.15	6,226.28	.....	6,226.28	.....
.....	37,174.43	19,337.19	.....	19,337.19	.....
1,463.25	15,975.89	11,662.70	.....	11,662.70	.....
.....	4,207.96	3,599.25	.....	3,599.25	.....
.....	2,061.35	2,004.04	.....	2,004.04	.....
.....	6,180.24	5,520.14	.....	5,520.14	.....
.....	13,126.74	9,189.55	.....	9,189.55	.....
.....	832.27	691.23	.....	691.23	.....
.....	4,170.26	3,379.28	.....	3,379.28	.....

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay and

Statement showing the net Credit or Charge to each Municipality in respect of and adjustments made during the year. Also the net amount Credited ended October 31, 1945, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1944	
		Credit	Charge
		\$ c.	\$ c.
Springville.....	Aug. 1917	297.48	.....
Stamford Township.....	Nov. 1916	5,928.82	.....
Stayner.....	Oct. 1913	2,186.13	.....
Stirling.....	Jan. 1930	1,658.87	.....
Stouffville.....	Sept. 1923	1,639.71	.....
Stratford.....	Jan. 1911	16,985.19	.....
Strathroy.....	Dec. 1914	6,450.01	.....
Streetsville.....	Dec. 1934	921.08	.....
Sunderland.....	Nov. 1914	583.12	.....
Sutton.....	Aug. 1923	1,544.22	.....
Swansea.....	Oct. 1937	10,885.24	.....
Tara.....	Feb. 1918	891.13	.....
Tavistock.....	Nov. 1916	2,269.02	.....
Tecumseh.....	Nov. 1922	1,761.78	.....
Teeswater.....	Dec. 1920	1,289.62	.....
Thamesford.....	Feb. 1914	1,075.56	.....
Thamesville.....	Oct. 1915	939.87	.....
Thedford.....	May 1922	803.63	.....
Thornbury.....	Sept. 1944	.....	.....
Thorndale.....	Mar. 1914	514.35	.....
Thornton.....	Nov. 1918	264.66	.....
Thorold.....	Jan. 1921	8,166.18	.....
Tilbury.....	April 1915	6,801.81	.....
Tillsonburg.....	Aug. 1911	6,258.01	.....
Toronto.....	June 1911	716,501.97	.....
Toronto Township.....	Aug. 1913	12,781.44	.....
Tottenham.....	Oct. 1918	803.41	.....
Trafalgar Twp. Area No. 1.....	Nov. 1936	791.70	.....
Trafalgar Twp. Area No. 2.....	Nov. 1936	221.48	.....
Trenton.....	Sept. 1931	25,365.59	.....
Tweed.....	Dec. 1930	2,135.46	.....
Uxbridge.....	Sept. 1922	2,648.85	.....
Victoria Harbour.....	July 1914	593.73	.....
Walkerton.....	Feb. 1931	7,593.56	.....
Wallaceburg.....	Feb. 1915	19,606.49	.....

SYSTEM

S.O.—CREDIT OR CHARGE

Eastern Ontario Divisions

power supplied to it to October 31, 1944, the cash receipts and payments thereon or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1945

Cash receipts and payments on account of such credits and charges, also adjustments made during the year		Net amount credited or charged upon annual adjustment in respect of power supplied in the year ended October 31, 1945		Accumulated amount standing as a credit or charge on October 31, 1945	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	297.48	296.54	.....	296.54	.....
.....	5,928.82	3,149.51	.....	3,149.51	.....
.....	2,186.13	1,953.20	.....	1,953.20	.....
.....	1,658.87	1,046.25	.....	1,046.25	.....
.....	1,639.71	1,354.17	.....	1,354.17	.....
.....	16,985.19	11,322.44	.....	11,322.44	.....
.....	6,450.01	3,948.95	.....	3,948.95	.....
.....	921.08	746.30	.....	746.30	.....
.....	583.12	346.31	.....	346.31	.....
.....	1,544.22	1,188.45	.....	1,188.45	.....
.....	10,885.24	4,139.64	.....	4,139.64	.....
.....	891.13	743.53	.....	743.53	.....
.....	2,269.02	1,407.08	.....	1,407.08	.....
.....	1,761.78	1,912.22	.....	1,912.22	.....
.....	1,289.62	1,107.44	.....	1,107.44	.....
.....	1,075.56	1,216.61	.....	1,216.61	.....
.....	939.87	967.41	.....	967.41	.....
.....	803.63	136.87	.....	136.87	.....
.....	.....	592.03	.....	592.03	.....
.....	514.35	200.92	.....	200.92	.....
.....	264.66	188.12	.....	188.12	.....
.....	8,166.18	9,145.12	.....	9,145.12	.....
.....	6,801.81	6,259.53	.....	6,259.53	.....
.....	6,258.01	4,553.41	.....	4,553.41	.....
.....	716,501.97	364,212.27	.....	364,212.27	.....
.....	12,781.44	9,075.21	.....	9,075.21	.....
.....	803.41	114.60	.....	114.60	.....
.....	791.70	448.75	.....	448.75	.....
.....	221.48	338.30	.....	338.30	.....
.....	25,365.59	12,474.62	.....	12,474.62	.....
.....	2,135.46	1,683.89	.....	1,683.89	.....
.....	2,648.85	3,091.67	.....	3,091.67	.....
.....	593.73	454.60	.....	454.60	.....
.....	7,593.56	6,211.22	.....	6,211.22	.....
.....	19,606.49	23,442.56	.....	23,442.56	.....

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay and

Statement showing the net Credit or Charge to each Municipality in respect of and adjustments made during the year. Also the net amount Credited ended October 31, 1945, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1944	
		Credit	Charge
		\$ c.	\$ c.
Wardsville.....	June 1921	227.26	.....
Warkworth.....	Oct. 1923	385.25	.....
Waterdown.....	Nov. 1911	911.58	.....
Waterford.....	April 1915	1,601.09	.....
Waterloo.....	Dec. 1910	14,143.25	.....
Watford.....	Sept. 1917	2,281.83	.....
Waubashene.....	Dec. 1914	814.79	.....
Welland.....	Sept. 1917	7,113.71	.....
Wellesley.....	Nov. 1916	612.54	.....
Wellington.....	April 1919	1,801.32	.....
West Lorne.....	Jan. 1917	950.65	.....
Weston.....	Aug. 1911	9,125.95	.....
Westport.....	Nov. 1931	704.81	.....
Wheatley.....	Feb. 1924	992.28	.....
Whitby.....	Jan. 1926	8,984.08	.....
Warton.....	May 1931	1,845.90	.....
Williamsburg.....	April 1915	353.19	.....
Winchester.....	Jan. 1914	2,120.90	.....
Windermere.....	June 1930	297.02	.....
Windsor.....	Oct. 1914	154,331.93	.....
Wingham.....	Dec. 1920	7,259.47	.....
Woodbridge.....	Dec. 1914	2,616.72	.....
Woodstock.....	Jan. 1911	21,057.17	.....
Woodville.....	Nov. 1914	574.56	.....
Wyoming.....	Nov. 1916	484.06	.....
York Township.....	Jan. 1941	82,579.89	.....
Zurich.....	Sept. 1917	540.40	.....
Ontario Reformatory.....	Sept. 1913	1,271.26	.....
Toronto Transportation Commission.....	Jan. 1927	5,609.28	.....
		3,043,169.00	.....

SYSTEM

S.O.—CREDIT OR CHARGE

Eastern Ontario Divisions

power supplied to it to October 31, 1944, the cash receipts and payments thereon or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1945

Cash receipts and payments on account of such credits and charges, also adjustments made during the year		Net amount credited or charged upon annual adjustment in respect of power supplied in the year ended October 31, 1945		Accumulated amount standing as a credit or charge on October 31, 1945	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	227.26	36.94	.....	36.94	.....
.....	385.25	293.28	.....	293.28	.....
.....	911.58	694.42	.....	694.42	.....
.....	1,601.09	1,493.73	.....	1,493.73	.....
.....	14,143.25	9,394.49	.....	9,394.49	.....
.....	2,281.83	2,021.45	.....	2,021.45	.....
.....	814.79	575.36	.....	575.36	.....
.....	7,113.71	911.34	.....	911.34	.....
.....	612.54	421.03	.....	421.03	.....
.....	1,801.32	1,527.33	.....	1,527.33	.....
.....	950.65	1,223.63	.....	1,223.63	.....
.....	9,125.95	7,771.63	.....	7,771.63	.....
.....	704.81	116.90	.....	116.90	.....
.....	992.28	530.35	.....	530.35	.....
.....	8,984.08	4,222.22	.....	4,222.22	.....
.....	1,845.90	2,211.91	.....	2,211.91	.....
.....	353.19	416.98	.....	416.98	.....
.....	2,120.90	999.11	.....	999.11	.....
.....	297.02	29.80	.....	29.80	.....
.....	154,331.93	108,640.40	.....	108,640.40	.....
.....	7,259.47	6,371.69	.....	6,371.69	.....
.....	2,616.72	1,944.86	.....	1,944.86	.....
.....	21,057.17	22,179.85	.....	22,179.85	.....
.....	574.56	331.38	.....	331.38	.....
.....	484.06	643.42	.....	643.42	.....
.....	82,579.89	53,362.02	.....	53,362.02	.....
.....	540.40	557.80	.....	557.80	.....
.....	1,271.26	1,155.86	.....	1,155.86	.....
.....	5,609.28	5,480.06	.....	5,480.06	.....
2,594.87	3,045,763.87	1,797,094.60	375.82	1,797,094.60	375.82

SOUTHERN ONTARIO SYSTEM

S.O.—SINKING FUND

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1945

Municipality	Period of years ended Oct. 31, 1945	Amount	Municipality	Period of years ended Oct. 31, 1945	Amount
		\$ c.			\$ c.
Acton.....	28 years	108,576.51	Brighton.....	16 years	18,879.41
Agincourt.....	22 "	17,095.45	Brockville.....	25 "	262,853.15
Ailsa Craig.....	25 "	21,677.45	Brussels.....	22 "	19,248.10
Alexandria.....	21 "	42,065.95	Burford.....	25 "	20,463.41
Alliston.....	22 "	36,024.42	Burgessville.....	24 "	7,627.36
Almonte.....	1 "	576.46	Burlington.....	1 "	3,111.84
Alvinston.....	22 "	21,585.92	Caledonia.....	28 "	33,809.83
Amherstburg.....	22 "	82,598.43	Campbellville.....	21 "	4,110.07
Ancaster Township..	22 "	26,821.13	Cannington.....	26 "	22,239.09
Apple Hill.....	21 "	4,844.51	Cardinal.....	16 "	10,285.38
Arkona.....	19 "	9,298.81	Carleton Place.....	21 "	117,244.64
Arnprior.....	7 "	17,413.36	Cayuga.....	21 "	14,820.62
Arthur.....	24 "	27,694.82	Chatham.....	25 "	591,214.08
Athens.....	17 "	9,784.72	Chatsworth.....	25 "	6,875.44
Aurora.....	3 "	9,302.04	Chesley.....	24 "	53,235.09
Aylmer.....	22 "	66,526.27	Chesterville.....	26 "	37,050.07
Ayr.....	26 "	22,255.15	Chippawa.....	24 "	25,177.07
Baden.....	28 "	47,251.55	Clifford.....	22 "	11,133.14
Barrie.....	27 "	239,496.99	Clinton.....	26 "	68,950.53
Bath.....	14 "	3,368.02	Cobden.....	10 "	3,362.84
Beachville.....	28 "	61,477.02	Cobourg.....	14 "	81,172.87
Beamsville.....	9 "	10,669.19	Colborne.....	13 "	7,788.55
Beaverton.....	26 "	29,487.82	Coldwater.....	27 "	20,969.77
Beeton.....	22 "	22,249.52	Collingwood.....	27 "	203,439.59
Belle River.....	23 "	16,082.00	Comber.....	25 "	25,909.29
Belleville.....	17 "	281,704.20	Cookstown.....	22 "	8,130.78
Blenheim.....	25 "	55,791.56	Cottam.....	19 "	6,934.03
Bloomfield.....	17 "	9,620.90	Courtright.....	22 "	8,292.92
Blyth.....	22 "	14,873.86	Creemore.....	26 "	17,244.40
Bolton.....	25 "	25,449.49	Dashwood.....	23 "	12,470.13
Bothwell.....	25 "	24,100.93	Delaware.....	25 "	5,150.93
Bowmanville.....	14 "	105,562.03	Delhi.....	8 "	13,101.16
Bradford.....	22 "	26,526.94	Deseronto.....	15 "	11,760.42
Braeside.....	1 "	424.08	Dorchester.....	26 "	11,234.72
Brampton.....	29 "	252,620.68	Drayton.....	22 "	18,870.83
Brantford.....	26 "	1,397,841.42	Dresden.....	25 "	47,120.61
Brantford Township.	22 "	56,942.63	Drumbo.....	26 "	9,878.54
Brechin.....	26 "	10,492.16	Dublin.....	23 "	8,089.83
Bridgeport.....	18 "	10,167.76	Dundalk.....	25 "	19,029.85
Brigden.....	23 "	16,688.68	Dundas.....	29 "	210,587.45

SOUTHERN ONTARIO SYSTEM

S.O.—SINKING FUND

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1945

Municipality	Period of years ended Oct. 31, 1945	Amount	Municipality	Period of years ended Oct. 31, 1945	Amount
		\$ c.			\$ c.
Dunnville	23 years	95,275.44	Humberstone	22 years	33,627.48
Durham	25 "	44,547.78	Huntsville	24 "	89,916.53
Dutton	25 "	28,748.91	Ingersoll	29 "	273,372.05
East York Township	21 "	449,042.50	Iroquois	6 "	3,220.78
Elmira	27 "	112,670.54	Jarvis	22 "	22,443.30
Elmvale	27, "	21,166.32	Kemptville	21 "	30,424.25
Elmwood	22 "	6,280.49	Kincardine	21 "	64,724.56
Elora	26 "	53,490.66	Kingston	8 "	225,931.62
Embro	26 "	16,340.14	Kingsville	22 "	61,425.22
Erieau	22 "	10,586.66	Kirkfield	21 "	4,595.89
Erie Beach	21 "	2,469.87	Kitchener	29 "	1,963,869.78
Essex	22 "	48,286.40	Lakefield	17 "	20,286.19
Etobicoke Township	23 "	370,592.23	Lambeth	25 "	14,288.81
Exeter	24 "	63,358.97	Lanark	21 "	9,136.30
Fergus	26 "	98,129.69	Lancaster	21 "	8,592.30
Finch	18 "	6,857.80	LaSalle	20 "	21,461.11
Flesherton	25 "	9,248.53	Leamington	22 "	137,253.63
Fonthill	20 "	10,422.59	Lindsay	17 "	159,931.98
Forest	23 "	51,281.11	Listowel	24 "	118,686.41
Forest Hill	22 "	298,266.01	London	29 "	3,568,695.09
Galt	29 "	823,104.10	London Township	21 "	33,222.35
Georgetown	27 "	157,088.95	Long Branch	15 "	48,147.63
Glencoe	22 "	29,876.30	Lucan	25 "	25,938.50
Goderich	26 "	181,816.16	Lucknow	21 "	30,666.95
Grand Valley	24 "	17,574.28	Lynden	25 "	18,168.86
Granton	24 "	11,396.47	Madoc	16 "	12,527.42
Gravenhurst	25 "	49,063.15	Markdale	24 "	15,285.42
Grimsby	4 "	8,675.55	Markham	22 "	29,374.59
Guelph	29 "	976,154.62	Marmora	17 "	8,799.93
Hagersville	27 "	110,208.77	Martintown	21 "	3,087.48
Hamilton	29 "	7,787,342.91	Maxville	21 "	13,759.74
Hanover	24 "	119,146.41	Meaford	21 "	47,346.67
Harriston	24 "	50,071.92	Merlin	22 "	16,211.00
Harrow	22 "	40,311.74	Merritton	24 "	300,379.83
Hastings	15 "	6,226.90	Midland	27 "	323,307.88
Havelock	17 "	17,432.98	Mildmay	13 "	6,090.54
Hensall	24 "	24,561.07	Millbrook	7 "	2,006.48
Hespeler	29 "	179,448.30	Milton	27 "	144,676.33
Highgate	24 "	13,766.77	Milverton	24 "	59,212.62
Holstein	24 "	3,830.53	Mimico	28 "	208,296.05

SOUTHERN ONTARIO SYSTEM

S.O.—SINKING FUND

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1945

Municipality	Period of years ended Oct. 31, 1945	Amount	Municipality	Period of years ended Oct. 31, 1945	Amount
		\$ c.			\$ c.
Mitchell.....	29 years	65,554.34	Port Elgin.....	15 years	21,939.79
Moorefield.....	22 "	8,865.11	Port Hope.....	16 "	97,110.60
Morrisburg.....	8 "	4,912.48	Port McNicoll.....	26 "	9,133.17
Mount Brydges.....	25 "	11,072.05	Port Perry.....	21 "	26,682.54
Mount Forest.....	25 "	49,103.00	Port Rowan.....	19 "	10,293.74
Napanee.....	16 "	65,618.22	Port Stanley.....	28 "	59,638.95
Neustadt.....	22 "	8,715.92	Prescott.....	26 "	74,955.69
Newbury.....	22 "	6,221.50	Preston.....	29 "	370,506.68
Newcastle.....	9 "	4,433.69	Priceville.....	21 "	1,374.56
New Hamburg.....	29 "	70,114.57	Princeton.....	26 "	14,038.64
Newmarket.....	1 "	2,665.15	Queenston.....	22 "	10,005.74
New Toronto.....	26 "	707,943.24	Renfrew.....	1 "	433.19
Niagara Falls.....	25 "	806,229.74	Richmond.....	18 "	4,840.84
Niagara-on-the-Lake	22 "	48,056.91	Richmond Hill.....	21 "	31,099.61
North York Township	22 "	304,381.95	Ridgetown.....	25 "	61,501.36
Norwich.....	28 "	51,761.00	Ripley.....	21 "	11,894.97
Norwood.....	17 "	9,122.15	Riverside.....	23 "	118,698.43
Oil Springs.....	22 "	33,953.24	Rockwood.....	27 "	15,909.62
Omeme.....	6 "	3,094.14	Rodney.....	23 "	19,596.98
Orangeville.....	24 "	66,932.91	Rosseau.....	15 "	5,570.57
Orono.....	7 "	2,139.58	Russell.....	20 "	8,145.00
Oshawa.....	17 "	847,523.30	St. Catharines.....	24 "	1,035,940.22
Ottawa.....	30 "	363,690.62	St. Clair Beach.....	23 "	9,982.89
Otterville.....	24 "	12,801.17	St. George.....	25 "	20,052.65
Owen Sound.....	25 "	332,313.06	St. Jacobs.....	23 "	24,548.74
Paisley.....	21 "	16,026.27	St. Marys.....	29 "	185,826.64
Palmerston.....	24 "	63,035.14	St. Thomas.....	29 "	710,710.04
Paris.....	26 "	163,053.06	Sarnia.....	24 "	908,450.66
Parkhill.....	22 "	27,939.79	Scarborough Twp.,...	22 "	292,323.09
Penetanguishene.....	29 "	91,967.97	Seaforth.....	29 "	87,031.49
Perth.....	21 "	104,273.63	Shelburne.....	24 "	27,730.34
Peterborough.....	17 "	505,787.84	Simcoe.....	25 "	166,913.05
Petrolia.....	24 "	144,101.49	Smiths Falls.....	22 "	152,362.30
Picton.....	17 "	81,956.92	Smithville.....	5 "	2,582.67
Plattsville.....	26 "	13,557.02	Southampton.....	15 "	20,658.81
Point Edward.....	23 "	97,246.03	Springfield.....	23 "	12,594.79
Port Colborne.....	24 "	146,480.90	Stamford Township..	24 "	145,578.78
Port Credit.....	28 "	61,802.90	Stayner.....	27 "	24,689.96
Port Dalhousie.....	24 "	56,226.52	Stirling.....	16 "	13,645.92
Port Dover.....	22 "	39,677.28	Stouffville.....	22 "	25,365.36

SOUTHERN ONTARIO SYSTEM

S.O.—SINKING FUND

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1945

Municipality	Period of years ended Oct. 31, 1945	Amount	Municipality	Period of years ended Oct. 31, 1945	Amount
		\$ c.			\$ c.
Stratford.....	29 years	836,581.19	Watford.....	23 years	35,345.84
Strathroy.....	26 "	129,460.33	Waubashene.....	26 "	6,860.21
Streetsville.....	11 "	5,972.20	Welland.....	23 "	478,199.43
Sunderland.....	26 "	14,223.65	Wellesley.....	24 "	22,058.52
Sutton.....	22 "	25,279.00	Wellington.....	17 "	15,435.49
Swansea.....	20 "	136,042.70	West Lorne.....	24 "	34,450.28
Tara.....	22 "	12,341.36	Weston.....	29 "	348,529.64
Tavistock.....	24 "	65,448.63	Westport.....	14 "	8,175.00
Tecumseh.....	23 "	38,484.30	Wheatley.....	22 "	20,661.20
Teeswater.....	21 "	18,015.03	Whitby.....	17 "	78,526.49
Thamesford.....	26 "	24,499.11	Wiarton.....	15 "	23,034.31
Thamesville.....	25 "	24,735.44	Williamsburg.....	25 "	8,897.95
Thedford.....	22 "	14,081.23	Winchester.....	26 "	28,284.96
Thornbury.....	1 "	159.50	Windermere.....	16 "	3,861.40
Thorndale.....	26 "	12,041.12	Windsor.....	26 "	4,413,572.74
Thornton.....	22 "	4,792.72	Wingham.....	21 "	57,088.97
Thorold.....	23 "	153,637.53	Woodbridge.....	26 "	47,207.21
Tilbury.....	25 "	75,938.57	Woodstock.....	29 "	596,424.96
Tillsonburg.....	29 "	127,785.93	Woodville.....	26 "	13,805.41
Toronto.....	29 "	27,314,558.46	Wyoming.....	24 "	11,618.04
Toronto Township...	27 "	178,013.26	York Township.....	25 "	1,103,271.83
Tottenham.....	22 "	15,614.68	Zurich.....	23 "	18,784.37
Trafalgar Twp., Area			Ontario Reformatory.	11 "	10,449.21
No. 1.....	9 "	11,590.86	Toronto Transporta-		
Trafalgar Twp., Area			tion Commission...	24 "	226,334.99
No. 2.....	9 "	4,218.68	Sandwich, Winsdor &		
Trenton.....	14 "	142,131.47	Amherstburg Rly..	23 "	222,255.84
Tweed.....	15 "	15,790.60	Total Municipalities.....		\$74,316,236.42
Uxbridge.....	21 "	29,002.48	Total—Rural Power Dis-		
Victoria Harbour...	26 "	9,239.53	trict.....		6,914,855.82
Walkerton.....	15 "	35,045.00	Grand Total.....		\$81,231,092.24
Wallaceburg.....	25 "	284,691.25			
Wardsville.....	22 "	5,253.06			
Warkworth.....	17 "	5,860.76			
Waterdown.....	29 "	30,819.93			
Waterford.....	25 "	46,033.43			
Waterloo.....	29 "	390,559.54			

SOUTHERN ONTARIO SYSTEM

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

RURAL POWER DISTRICT

Operating Account for the year ended October 31, 1945

Revenue from customers in rural power district.....	\$5,878,120.05
Cost of power as provided to be paid under Power Commission Act..	\$2,568,249.74
Cost of operation, maintenance and administration.....	1,495,703.47
Interest.....	861,856.28
Provision for renewals.....	411,565.70
Provision for sinking fund.....	219,583.59
	<hr/> 5,556,958.78
Balance.....	\$ 321,161.27
	<hr/> <hr/>

Rates Suspense Account—as at October 31, 1945

Balance at credit November 1, 1944.....	\$2,705,225.47
Interest on account balances.....	108,070.91
Operating balance for the year.....	321,161.27
Adjustments made during the year.....	\$ 3,968.46
Balance at credit October 31, 1945.....	3,130,489.19
	<hr/> \$3,134,457.65
	<hr/> <hr/>

SOUTHERN ONTARIO SYSTEM—Rural Lines

Georgian Bay Division

Statement showing Interest, Renewals, Contingencies and Obsolescence and Sinking Fund charged by the Commission to the Municipality that operates the rural line for the year ended October 31, 1945

Operated by	Capital cost	Interest	Provision for renewals	Provision for contingencies and obsolescence	Provision for sinking fund	Total interest, renewals, contingencies and obsolescence, and sinking fund charged
Brechin.....	\$ c. 922.02	\$ c. 48.22	\$ c. 18.44	\$ c. 9.22	\$ c. 16.60	\$ c. 92.48

Statement showing the total Sinking Fund in respect of the line, together with interest allowed thereon to October 31, 1945

Operated by	Period of years ended October 31, 1945	Amount
Brechin.....	27 years	\$ c. 735.81

THUNDER BAY

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount billed by the Commission against or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system	Average horse-power supplied in year after correction for power factor	Share of operating		
	To Dec. 31, 1944	From Jan. 1, 1945			Operating maintenance and administrative expenses	Interest	Provision for renewals
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Fort William.....	21.00	20.00	2,864,647.85	16,683.6	56,093.53	116,869.31	24,008.81
Nipigon Twp.....	28.00	28.00	37,740.55	243.8	1,969.59	1,520.12	294.42
Port Arthur.....	21.00	20.00	4,160,866.47	24,310.7	81,351.30	169,789.55	34,783.90
Totals—Municipalities.....			7,063,254.87	41,238.1	139,414.42	288,178.98	59,087.13
Totals—Rural power district.....			177,015.15	834.1	3,445.19	7,285.76	1,687.69
Totals—Companies.....			8,919,163.73	52,959.4	209,349.80	359,389.04	71,395.66
Totals—Rainy River district (N.O.P.).....			2,882,659.25	18,311.7	52,394.73	117,758.45	22,540.66
Totals—Mining area (mines).....			1,694,902.23	6,067.5	46,212.11	71,170.79	6,040.19
Totals—Mining area (townsites).....			280,886.13	598.9	20,212.21	11,901.93	596.21
Non-operating capital.....			21,017,881.36 38,575.45				
Grand Totals.....			21,056,456.81	120,009.7	471,028.46	855,684.95	161,347.54

THUNDER BAY

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year; also the net amount Credited or Charged 1945, and the accumulated amount standing as a Credit

Municipality	Date commenced operating	Net credit or charge at October 31, 1944	
		Credit	Charge
		\$ c.	\$ c.
Fort William.....	Oct. 1926	34,889.56	.....
Township of Nipigon.....	Jan. 1925	1,153.43	.....
Port Arthur.....	Dec. 1910	52,777.73	.....
Totals.....		88,820.72	.....

SYSTEM

T.B.—COST OF POWER

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1945

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Balance credited to each municipality Credited
Provision for contingencies and obsolescence	Provision for stabilization of rates	Provision for sinking fund				
			Debit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
79,431.12		28,529.85	7,131.17	312,063.79	336,765.49	24,701.70
1,141.93		373.93	104.21	5,404.20	6,827.11	1,422.91
115,677.03		41,431.63	10,391.28	453,424.69	490,402.98	36,978.29
196,250.08		70,335.41	17,626.66	770,892.68	833,995.58	63,102.90
4,133.63		1,768.40	356.52	18,677.19	18,677.19	
252,419.41		87,231.35	(17,983.18)	961,802.08	961,802.08	
12,665.39		28,582.47		233,941.70	233,941.70	
82,680.23	(38,664.98)	8,362.17		175,800.51	175,800.51	
18,648.28	(9,954.78)	825.40		42,229.25	42,229.25	
566,797.02	(48,619.76)	197,105.20		2,203,343.41	2,266,446.31	63,102.90

SYSTEM

supplied to it to October 31, 1944, the cash receipts and payments thereon, adjustments to each Municipality in respect of power supplied in the year ended October 31, or Charge to each Municipality at October 31, 1945

Cash receipts and payments on account of such credits and charges, also adjustments made during the year		Net amount credited or charged upon annual adjustment in respect of power supplied in the year ended October 31, 1945		Accumulated amount standing as a credit or charge on October 31, 1945	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
	34,889.56	24,701.70		24,701.70	
	1,153.43	1,422.91		1,422.91	
	52,777.73	36,978.29		36,978.29	
	88,820.72	63,102.90		63,102.90	

THUNDER BAY SYSTEM

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1945

Municipality	Period of years ended October 31, 1945	Amount
		\$ c.
Fort William.....	19 years	1,171,934.65
Township of Nipigon.....	19 years	11,761.25
Port Arthur.....	19 years	3,155,534.36
Total—Municipalities.....		4,339,230.26
Total—Rural power district.....		53,354.35
Grand total.....		4,392,584.61

THUNDER BAY SYSTEM

RURAL POWER DISTRICT

Operating Account for year ended October 31, 1945

Revenue from customers in rural power district.....	\$54,332.63
Cost of power as provided to be paid under Power Commission Act....	\$18,677.19
Cost of operation, maintenance and administration.....	22,200.59
Interest.....	11,480.15
Provision for renewals.....	5,292.45
Provision for sinking fund.....	2,786.47
	<u>60,436.85</u>
Balance.....	<u>(\$6,104.22)</u>

Rates Suspense Account as at October 31, 1945

Balance at debit, November 1, 1944.....	\$11,226.74
Interest on account balances.....	452.64
Operating balance for the year.....	6,104.22
Adjustments made during the year.....	119.04
Balance at debit, October 31, 1945.....	\$17,902.64
	<u>\$17,902.64</u> <u>\$17,902.64</u>

NORTHERN ONTARIO PROPERTIES

(Operated by The Hydro-Electric Power Commission of Ontario)

FINANCIAL ACCOUNTS

For the year ended October 31, 1945

Relating to Power Properties which are held and operated by the Commission in trust for the Province of Ontario, and which are situated in the following Northern Districts:

Abitibi	Timiskaming	Sudbury	Nipissing
Patricia	Rainy River	Rural Power	

STATEMENTS

Balance Sheet as at October 31, 1945

Operating Account for the year ended October 31, 1945

Schedules supporting the Balance Sheet as at October 31, 1945

Fixed Assets—By Districts

Fixed Assets—Changes during year

Renewals Reserve

Contingencies and Obsolescence Reserve

Sinking Fund Reserve

THE HYDRO-ELECTRIC POWER

NORTHERN ONTARIO

Held and Operated by The Hydro-Electric Power

BALANCE SHEET AS AT

ASSETS

FIXED ASSETS:

Abitibi district.....	\$28,779,642.88
Timiskaming district.....	12,560,799.00
Sudbury district.....	4,383,743.19
Nipissing district.....	1,413,433.92
Patricia district.....	4,439,474.10
Rainy River district.....	1,539,636.88
Rural Power district.....	990,289.74

\$54,107,019.71

Less: Grants-in-aid of construction:

Province of Ontario—for rural power district.....	453,247.92
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\$53,653,771.79

CURRENT ASSETS:

Employees' working funds.....	\$ 14,345.00
The Hydro-Electric Power Commission of Ontario—current account.....	3,580,875.57
Sundry accounts receivable.....	13,992.23
Power accounts receivable.....	542,448.71
Interest accrued.....	15,234.38

Consumers' deposits—securities:

Bonds at par value.....	\$975,200.00
Stocks at market value.....	229,392.50

1,204,592.50

Prepayments.....	87,500.45
------------------	-----------

5,458,988.84

INVENTORIES:

Maintenance materials and supplies.....	\$ 307,012.33
Maintenance tools and equipment.....	88,296.63

395,308.96

DEFERRED ASSETS:

Work in progress—deferred work orders.....	201,766.86
--	------------

UNAMORTIZED DISCOUNT ON DEBENTURES.....	95,873.85
---	-----------

INVESTMENTS (Including sinking fund investment of \$1,512,879.99)

Investments in Province of Ontario bonds at amortized cost.....	1,591,938.93
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\$ 61,397,649.23

COMMISSION OF ONTARIO

PROPERTIES

Commission of Ontario in trust for the Province of Ontario

OCTOBER 31, 1945

LIABILITIES AND RESERVES

LONG TERM LIABILITIES (at par of exchange):

Funded debt in the hands of the public.....	\$ 31,973,200.00	
Advances from the Province of Ontario for capital purposes.....	5,576,436.46	
Purchase agreements.....	6,013.36	
		\$ 37,555,649.82

CURRENT LIABILITIES:

Power accounts—credit balances.....	\$ 2,467.02	
Consumers' deposits.....	1,357,886.22	
Debenture interest accrued.....	175,205.66	
Miscellaneous accruals.....	24,932.50	
		1,560,491.40

RESERVES:

Renewals.....	\$ 4,624,236.40	
Contingencies and obsolescence.....	3,315,100.61	
Miscellaneous.....	284,499.76	
		8,223,836.77

SINKING FUND RESERVES:

Represented by:

Funded debt and provincial advances retired through sinking funds.....	\$ 11,967,475.01	
Sinking fund investment.....	1,512,879.99	
		13,480,355.00

SURPLUS.....	577,316.24	
		\$ 61,397,649.23

Auditors' Report

We have made an examination of the balance sheet of the Northern Ontario Properties, held and operated by The Hydro-Electric Power Commission of Ontario in trust for the Province of Ontario, as at October 31, 1945 and of the attached statements of operations and surplus for the year ended on that date. In connection therewith we reviewed the system of internal control and the accounting procedures of the Commission, and, without making a detailed audit of the transactions, have examined or tested accounting records of the Commission and other supporting evidence by methods and to the extent we deemed appropriate.

We report that in our opinion the foregoing balance sheet and related statements of operations and surplus as more fully reported upon by us to the Lieutenant-Governor in Council have been drawn up so as to exhibit a true and correct view of the state of the affairs of the Northern Ontario Properties operated by the Commission at October 31, 1945 and the results of their operation for the year ended on that date, according to the best of our information and the explanations given us and as shown by the books.

CLARKSON, GORDON & CO.

Chartered Accountants.

Toronto, Canada,
June 12, 1946.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario
in trust for the Province of Ontario

Statement of Operations for the year ended October 31, 1945

REVENUE:

Power sold to private companies and customers. \$6,155,380.99

COST OF OPERATION:

Power purchased.	\$297,042.29	
Operating, maintenance and administrative expenses.	1,835,999.18	
Interest (including interest on sinking fund, renewals, and other reserves and after deducting interest earned on investments)	1,808,982.38	
Provision for renewals.	455,409.98	
Provision for contingencies and obsolescence.	480,161.45	
Provision for sinking fund.	1,496,103.48	
		<u>\$6,373,698.76</u>
NET LOSS ON OPERATIONS FOR YEAR.		<u><u>\$218,317.77</u></u>

Statement of Surplus for the year ended October 31, 1945

Balance at credit November 1, 1944.		\$971,351.38
Transferred from reserves.		<u>1,223.40</u>
		\$972,574.78
Less:		
Net loss on operations for year ended October 31, 1945.	\$218,317.77	
Adjustment of previous year's billing for power supplied.	<u>176,940.77</u>	
		<u>395,258.54</u>
BALANCE AT CREDIT OCTOBER 31, 1945.		<u><u>\$577,316.24</u></u>

NORTHERN ONTARIO PROPERTIES

Held and Operated by The Hydro-Electric Power Commission of Ontario
in trust for the Province of Ontario

Fixed Assets—October 31, 1945

Property	Under construction	Fixed Assets		Total
		In service		
		Non-depreciable	Depreciable	
	\$ c.	\$ c.	\$ c.	\$ c.
ABITIBI:				
Power Plants:				
Abitibi river:				
Abitibi Canyon.....	43,915. 14	5,530,862. 63	13,449,596. 21	19,024,373. 98
Frederick House dam.....	20,354. 90	124,532. 31	687,012. 13	831,899. 34
Dasserat Lake diversion.....		4,220. 89	34,471. 80	38,692. 69
	64,270. 04	5,659,615. 83	14,171,080. 14	19,894,966. 01
Transformer Stations.....	8,010. 23	215,856. 69	2,068,589. 86	2,292,456. 78
Transmission Lines.....	26,893. 80	830,142. 02	5,643,216. 50	6,500,252. 32
Local Systems.....			91,967. 77	91,967. 77
	99,174. 07	6,705,614. 54	21,974,854. 27	28,779,642. 88
TIMISKAMING:				
Power Plants:				
Matabitchuan river:				
Matabitchuan.....	10. 20	3,240. 00	635,795. 00	639,045. 20
Storage dams.....			134,000. 00	134,000. 00
Montreal river:				
Upper Notch.....		4,860. 00	1,377,565. 00	1,382,425. 00
Fountain Falls.....			349,751. 00	349,751. 00
Ragged Chute.....			976,000. 00	976,000. 00
Hound Chute.....		3,240. 00	446,454. 00	449,694. 00
Indian Chute.....	2,438. 59		408,635. 00	411,073. 59
Storage dams.....			165,000. 00	165,000. 00
Mattagami river:				
Sandy Falls.....			520,955. 00	520,955. 00
Wawaitin.....			764,212. 00	764,212. 00
Lower Sturgeon.....		53,250. 00	772,773. 00	826,023. 00
Storage dams.....		1,944. 00	161,056. 00	163,000. 00
Intangible.....		1,548,713. 78		1,548,713. 78
	2,448. 79	1,615,247. 78	6,712,196. 00	8,329,892. 57
Transformer Stations.....	10,955. 69		1,169,119. 46	1,180,075. 15
Transmission Lines.....	446. 16	290,360. 00	1,909,945. 71	2,200,751. 87
Office and Service Buildings.....	161. 06		152,680. 00	152,841. 06
Local Distribution Systems.....			697,238. 35	697,238. 35
	14,011. 70	1,905,607. 78	10,641,179. 52	12,560,799. 00

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario
in trust for the Province of Ontario

Fixed Assets—October 31, 1945

Property	Under construction	Fixed Assets		Total
		In service		
		Non- depreciable	Depreciable	
SUDBURY:				
Power Plants:				
Wanapitai river:				
Coniston	1,029.38	13,597.20	732,799.66	747,426.24
McVitties	782.37	13,323.00	387,797.21	401,902.58
Stinson		33,000.00	656,001.78	689,001.78
Storage dam		25.00	194,870.00	194,895.00
Intangible		830,514.53		830,514.53
Sturgeon river:				
Crystal Falls and Storage dams		44,531.27	938,588.02	983,119.29
	1,811.75	934,991.00	2,910,056.67	3,846,859.42
Transformer Stations			77,703.38	77,703.38
Transmission Lines	900.27		458,280.12	459,180.39
	2,712.02	934,991.00	3,446,040.17	4,383,743.19
NIPISSING:				
Power Plants:				
South river:				
Nipissing		11,089.60	242,559.52	253,649.12
Bingham Chute	366.01	12,105.05	243,097.51	255,568.57
Elliot Chute		119,307.09	334,834.33	454,141.42
Storage dams			76,122.70	76,122.70
Miscellaneous			1,096.64	1,096.64
Intangible		69,478.34		69,478.43
	366.01	211,980.08	897,710.70	1,110,056.79
Transformer Stations	15.74		52,759.87	52,775.61
Transmission Lines	753.04		212,358.38	213,111.42
Local Systems		2,219.65	35,270.45	37,490.10
	1,134.79	214,199.73	1,198,099.40	1,413,433.92
PATRICIA:				
Power Plants:				
English river:				
Ear Falls		566.75	1,813,931.46	1,814,498.21
Albany river:				
Rat Rapids		39,297.44	556,026.69	595,324.13
		39,864.19	2,369,958.15	2,409,822.34
Transformer Stations	4,840.48		167,214.17	172,054.65
Transmission Lines	424.28		1,806,492.50	1,806,916.78
Local System	1,100.03		49,580.30	50,680.33
	6,364.79	39,864.19	4,393,245.12	4,439,474.10

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario
in trust for the Province of Ontario

Fixed Assets—October 31, 1945

Property	Under construction	Fixed Assets		Total
		In service		
		Non-depreciable	Depreciable	
RAINY RIVER:	\$ c.	\$ c.	\$ c.	\$ c.
Transformer Stations.....	309.26		147,106.30	147,415.56
Transmission Lines.....	744.60	246,026.08	1,113,545.40	1,360,316.08
Local System.....			31,905.24	31,905.24
	1,053.86	246,026.08	1,292,556.94	1,539,636.88
NORTHERN ONTARIO PROPERTIES				
RURAL POWER DISTRICT:				
Transformer Stations.....			10,820.23	10,820.23
H-E.P.C. investment.....			526,221.59	526,221.59
Government grants.....			453,247.92	453,247.92
			990,289.74	990,289.74

SUMMARY

Property	Under construction	Fixed Assets		Total
		In service		
		Non-depreciable	Depreciable	
	\$c.	\$c.	\$c.	\$c.
Abitibi district.	99,174.07	6,705,614.54	21,974,854.27	28,779,642.88
Timiskaming district.	14,011.70	1,905,607.78	10,641,179.52	12,560,799.00
Sudbury district.	2,712.02	934,991.00	3,446,040.17	4,383,743.19
Nipissing district.	1,134.79	214,199.73	1,198,099.40	1,413,433.92
Patricia district.	6,364.79	39,864.19	4,393,245.12	4,439,474.10
Rainy river district.	1,053.86	246,026.08	1,292,556.94	1,539,636.88
Rural power district.			990,289.74	990,289.74
	124,451.23	10,046,303.32	43,936,265.16	54,107,019.71
Less: Grants-in-aid of construction: Province of Ontario for rural power district..				453,247.92
				53,653,771.79

NORTHERN ONTARIO

STATEMENT SHOWING CHANGES IN FIXED ASSETS

Class of Asset	Balance at beginning of year	Expenditure during year
POWER PLANTS:	\$ c.	\$ c.
Abitibi district	19,871,769.34	73,196.67
Tiniskaming district		8,329,892.57*
Sudbury district	3,844,376.78	4,393.85
Nipissing district	1,116,198.89	7,477.88
Patricia district	2,408,351.66	1,264.09
	27,240,696.67	8,416,225.06
TRANSFORMER STATIONS:		
Abitibi district	2,282,147.71	13,968.00
Timiskaming district		1,180,075.15*
Sudbury district	157,165.08	23,336.92
Nipissing district	44,457.09	8,475.50
Patricia district	166,572.81	5,743.84
Rainy River district	130,406.44	17,009.12
	2,780,749.13	1,248,608.53
TRANSMISSION LINES:		
Abitibi district	6,486,138.43	20,752.60
Timiskaming district		2,197,750.80*
Sudbury district	457,930.12	900.27
Nipissing district	212,520.54	765.62
Patricia district	1,798,004.00	8,912.78
Rainy River district	1,334,383.44	32,487.70
	10,288,976.53	2,261,569.77
LOCAL SYSTEMS:		
Abitibi district	90,485.28	1,618.49
Timiskaming district		697,238.35*
Nipissing district	36,814.03	676.07
Patricia district	49,309.48	1,382.85
Rainy River district	16,440.75	15,464.49
	193,049.54	716,380.25
OFFICE AND SERVICE BUILDINGS:		
Timiskaming district		152,841.06*
RURAL POWER DISTRICT:		
Transformer station	10,820.23	
H-E.P.C. investment	463,730.58	62,749.91
Government grants	412,901.78	40,605.04
	887,452.59	103,354.95
	41,390,924.46	12,898,979.62
Less: Grants in aid of construction: Province of Ontario for rural power districts.	412,901.78	40,346.14
	40,978,022.68	12,858,633.48

* Purchase of Northern Ontario Power Company assets included.

PROPERTIES

DURING YEAR ENDED OCTOBER 31, 1945

Adjustment for equipment re-located	Retirements		Balance at end of year
	Value recovered (stores, sales and salvage)	Charged to reserves and operation*	
\$ c.	\$ c.	\$ c.	\$ c.
.....	.....	50,000.00	19,894,966.01
.....	.....	.....	8,329,892.57
.....	.....	1,911.21	3,846,859.42
.....	89.49	13,530.49	1,110,056.79
212.00	.....	5.41	2,409,822.34
212.00	89.49	65,447.11	35,591,597.13
.....	699.60	2,959.33	2,292,456.78
.....	.....	.....	1,180,075.15
350.00	93,378.89	9,069.73	77,703.38
.....	.....	156.98	52,775.61
212.00	.....	50.00	172,054.65
.....	.....	.....	147,415.56
562.00	94,078.49	12,236.04	3,922,481.13
3,001.07	47.73	3,589.91	6,500,252.32
3,001.07	.....	.....	2,200,751.87
350.00	.....	.....	459,180.39
.....	40.00	134.74	213,111.42
.....	.....	.....	1,806,916.78
.....	6,555.06	.....	1,360,316.08
350.00	6,642.79	3,724.65	12,540,528.86
.....	.....	136.00	91,967.77
.....	.....	.....	697,238.35
.....	.....	.....	37,490.10
.....	.....	12.00	50,680.33
.....	.....	.....	31,905.24
.....	.....	148.00	909,281.79
.....	.....	.....	152,841.06
.....	.....	.....	10,820.23
.....	38.50	220.40	526,221.59
.....	38.49	220.41	453,247.92
.....	76.99	440.81†	990,289.74
.....	100,887.76	81,996.61	54,107,019.71
.....	.....	.....	453,247.92
.....	100,887.76	81,996.61	53,653,771.79
.....	Renewals.....	9,650.84	
.....	Contingencies.....	69,685.32	
.....	Sinking Fund.....	2,219.64	
.....	Operation.....	440.81	
.....	.....	81,996.61	

† This item charged to operation.

NORTHERN ONTARIO PROPERTIES

Held and Operated by The Hydro-Electric Power Commission of Ontario
in trust for the Province of Ontario

Renewals Reserve—October 31, 1945

Balance at November 1, 1944.....	\$4,017,885.21	
Provision in the year.....	\$ 455,409.98	
Interest at 4% on reserve balance.....	160,715.39	
	<u>616,125.37</u>	
		\$4,634,010.58
Less:		
Expenditures in the year.....	\$ 123.34	
Amount withdrawn in respect of assets removed from service etc.....	9,650.84	
	<u>9,774.18</u>	
Balance at October 31, 1945.....		<u><u>\$4,624,236.40</u></u>

Contingencies and Obsolescence Reserve—October 31, 1945

Balance at November 1, 1944.....	\$2,812,472.50	
Provision in the year.....	\$ 480,161.45	
Interest at 4% on reserve balance.....	114,424.62	
	<u>594,586.07</u>	
		\$3,407,058.57
Less:		
Contingencies met with during the year.....	\$ 22,272.64	
Amount withdrawn in respect of assets removed from service etc.....	69,685.32	
	<u>91,957.96</u>	
Balance at October 31, 1945.....		<u><u>\$3,315,100.61</u></u>

Sinking Fund Reserve—October 31, 1945

Balance at November 1, 1944.....	\$11,542,444.45	
Provision in the year.....	\$1,496,103.48	
Interest at 4% on reserve balance.....	444,544.40	
	<u>1,940,647.88</u>	
		\$13,483,092.33
Less:		
Amount withdrawn in respect of assets removed from service etc.....	\$ 2,219.64	
Adjustment in the year.....	517.69	
	<u>2,737.33</u>	
Balance at October 31, 1945.....		<u><u>\$13,480,355.00</u></u>

THE HAMILTON STREET RAILWAY COMPANY

(A wholly-owned Subsidiary of The Hydro-Electric Power Commission
of Ontario—Southern Ontario System)

FINANCIAL ACCOUNTS

For the year ended October 31, 1945

Balance Sheet as at October 31, 1945

Operating Statement for the year ended October 31, 1945

THE HAMILTON STREET

(A Wholly-Owned Subsidiary of The Hydro-Electric

BALANCE SHEET AS AT

ASSETS

FIXED ASSETS:

Properties, road and equipment, buses, franchises, etc.....\$ 4,591,892.95

CURRENT ASSETS:

The Hydro-Electric Power Commission of Ontario—		
current account.....	\$ 1,479,196.64	
Conductors' and employees' advances.....	20,800.00	
Accounts receivable.....	3,323.11	
Interest accrued.....	225.00	
Prepayments.....	8,198.16	
		<hr/>
		1,511,742.91

MATERIALS AND SUPPLIES..... 104,781.93

INSURANCE RESERVE FUND INVESTMENTS:

Investments in Province of Ontario and Dominion of Canada bonds at		
amortized cost.....		104,757.89
		<hr/>
	\$ 6,313,175.68	<hr/>

RAILWAY COMPANY

Power Commission of Ontario—Southern Ontario System)

OCTOBER 31, 1945

LIABILITIES

CAPITAL STOCK:

Authorized—80,000 shares of \$50.00 par value each.....	\$ 4,000,000.00	
Issued—64,100 shares of \$50.00 par value each.....		\$ 3,205,000.00

CURRENT LIABILITIES:

Rentals accrued.....		1,123.00
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RESERVES:

Depreciation—road and equipment.....	\$ 2,848,104.96	
Insurance.....	130,283.70	
Miscellaneous.....	75,220.96	
		3,053,609.62
SURPLUS.....		53,443.06

NOTES: (1) Certain liabilities for wages, salaries, purchase of supplies and expenses have been provided for in the accounts of The Hydro-Electric Power Commission of Ontario and the indebtedness of the Commission to the Company has been adjusted accordingly.

(2) Subsequent to October 31, 1945 the share capital of the company was reduced by decreasing the par value of each share from \$50 to \$25 and by paying to the shareholders the sum of \$1,602,500, being \$25 per share on each of the 64,100 issued shares.

\$ 6,313,175.68

Auditors' Report

We have made an examination of the balance sheet of The Hamilton Street Railway Company as at October 31, 1945, and of the attached statements of operations and surplus for the year ended on that date. In connection therewith we reviewed the system of internal control and the accounting procedures of the company and, without making a detailed audit of the transactions, have examined or tested accounting records of the company and other supporting evidence by methods and to the extent we deemed appropriate.

We report that in our opinion, subject to the adequacy of the accumulated reserve for depreciation, the above balance sheet and related statements of operations and surplus have been drawn up so as to exhibit a true and correct view of the state of the affairs of The Hamilton Street Railway Company at October 31, 1945 and the results of its operations for the year ended on that date, according to the best of our information and the explanations given us and as shown by the books.

Toronto, Canada,
May 16, 1946.

CLARKSON, GORDON & CO.,
Chartered Accountants.

THE HAMILTON STREET RAILWAY COMPANY

(A Wholly-Owned Subsidiary of The Hydro-Electric Power Commission
of Ontario—Southern Ontario System)

Statement of Operations for the year ended October 31, 1945

REVENUES:

Transportation.....	\$ 2,339,758.58
Other operations.....	18,282.56
	<u>\$ 2,358,041.14</u>

EXPENSES:

Maintenance of way and structures.....	\$ 97,113.86
Maintenance of equipment.....	293,939.72
Electric power and motor fuel.....	208,282.97
Transportation expenses.....	556,586.91
General and miscellaneous expenses.....	180,263.80
Taxes (municipal and franchise).....	114,264.94
	<u>\$ 1,450,452.20</u>
Provision for depreciation.....	251,608.00
	<u>\$ 1,702,060.20</u>

NET REVENUE FOR YEAR ENDED OCTOBER 31, 1945.....	<u><u>\$ 655,980.94</u></u>
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Statement of Surplus for the year ended October 31, 1945

Balance at credit November 1, 1944.....	\$ 21,199.78
Net revenue for year ended October 31, 1945.....	655,980.94
	<u>\$ 677,180.72</u>

Less:

Additional provision for depreciation in respect of prior years.....	\$500,000.00
Dividend paid.....	123,737.66
	<u>623,737.66</u>

Balance at credit October 31, 1945.....	<u><u>\$ 53,443.06</u></u>
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SECTION X

MUNICIPAL ACCOUNTS

and

Statistical Data Relating to Hydro-Electric Distribution Systems Operated by Individual Municipalities Served by The Hydro-Electric Power Commission of Ontario

The Municipal Accounts section of this report presents in summary, and individually, the results of the operation of the local electrical utilities in municipalities owning their own distributing systems and operating with energy supplied by or through The Hydro-Electric Power Commission.

Financial statements prepared from the books of these Hydro utilities are submitted herein to show how each has operated during the past year, and its financial status at the present time. Other tables give useful statistical information respecting average costs for the various classes of service and the rates in force.

The books of account of the electrical utilities in all municipalities which have contracted with The Hydro-Electric Power Commission of Ontario for a supply of power are kept in accordance with an accounting system designed by the Commission. During the year 1945 this standard method of accounting was installed in Almonte, Braeside, Burlington, Newmarket, Renfrew and Thornbury.

Periodical inspections are made of the books of all Hydro electrical utilities and local officials are assisted in the improvement of their office routine with a view of standardizing, as far as possible, the methods employed. In the majority of the smaller municipalities much of the book-keeping for the electrical utilities is performed by representatives of the municipal accounting department of the Commission as a measure of economy. This arrangement insures the correct application of the standard accounting system, with resultant uniformity in classification of revenues and expenditures; secures true reflections of the actual operating results for the year, and greatly enhances the comparative values of the reports.

The first financial statement in this section presents consolidated balance sheets for the past eight years. Similar data for earlier years since 1913 were published in the Report for 1943. This consolidated statement combine

the balance sheets of all local municipal Hydro utilities receiving power under cost contracts. It is worth noting that the total plant value has increased from \$10,081,469.16 in 1913 to \$106,346,101.06 in 1945, and the total assets from \$11,907,826.86 to \$221,284,434.19. The liabilities have not increased in the same proportion as the assets, rising from \$10,468,351.79 to a maximum of \$52,685,316.86 in 1932, and receding to \$16,277,777.29 in 1945. The reasons for this are the regular fulfilment of debt retirement schedules under serial debenture provisions or by maturity of sinking funds, and also the fact that much of the cost of the increasing plant value has been financed out of reserves and surplus without increasing the capital liabilities of the respective utilities. By this procedure the funds of the systems are used to best advantage. Examination of the results will also show that there is a steady decline in the percentage of net liabilities to total assets; being from 88.0 per cent in 1913 to 7.0 per cent in 1945. The equities in The Hydro-Electric Power Commission's systems automatically acquired through the inclusion of sinking funds as part of the cost of power are not taken into account in arriving at these percentages.

The second financial statement presents consolidated operating reports for the past eight years and combines the results from all local municipal Hydro utilities receiving power under cost contracts. After providing for every cost of operation and fixed charges, including the standard provision for depreciation, the combined operating reports show a net surplus of \$4,445,-939.08 for 1945. (See also diagrams in Foreword to Report.)

The five statements, "A" to "E", following the two consolidated reports show the financial status of each municipal utility and the results of operations, giving classified information respecting revenue, operating costs, number of consumers and consumption, cost of power to municipalities, power and lighting rates charged to consumers, etc. In statements "A" and "B", the municipalities are arranged alphabetically under each system; in statement "D" the municipalities are arranged in three groups—cities, towns and small municipalities; in statements "C" and "E" all municipalities are arranged alphabetically. (Statement "C" suspended, see below.)

Statement "A" presents the balance sheet of each electrical utility. The plant values are shown under the general subdivisions specified in the standard accounting system and the other items on the positive side of the ledger which are included in total assets are self-explanatory.

In conformity with a policy of service at cost to the customer, refunds by cash or credit are made during the year in many municipalities from surplus funds accrued to the credit of municipal services, such as street lighting, water works, sewage disposal, etc., and to individual customers. The total thus returned to customers during the year 1945 amounted in round figures to \$925,000.00.

The reserves for depreciation, and the acquired equity in The Hydro-Electric Power Commission's systems, are listed individually and totalled; and under the heading "surplus" are included not only the operating surplus but the accumulation of sinking fund applicable to debenture debt and also the amount of debentures already retired out of revenue.

The depreciation reserve now amounts to 36.1 per cent of the total depreciable plant, while the depreciation reserve and surplus combined have already reached the sum of \$123,025,231.05, being equal to 115.6 per cent of the total plant cost.

Statement "B" shows the detailed operating report for each municipal electrical utility. It gives annual revenues from the various classes of consumers; the items of expenditure which make up the total annual expenditure and the sums set aside for depreciation. The population served by each local utility and the number of consumers of each class are also shown.

The item "cost of power supplied by H-E.P.C." in this statement includes the debit or credit balances ascertained by the annual adjustment of the cost of power supplied to the municipalities by the Commission.*

Of the 304 municipal electrical utilities included in this statement, 298 received from consumers revenue sufficient to meet in full all operating expenses, interest, debt retirement instalments, and standard depreciation reserve allocation and to yield an aggregate net surplus of \$4,451,006.96 for the year; 5 were able to defray out of revenue all such charges except a portion of the standard depreciation allocation aggregating \$1,742.80, in the case of 1 utility the revenue was less than the total operating expenses, interest and debt retirement instalments by \$36.68.

Statement "C". Conditions respecting street lighting were not back to normal throughout 1945, the statement is therefore again omitted in this year's Report.

Statement "D" presents statistics relating to the supply of electrical energy to consumers in Ontario municipalities served by the Commission. It shows the revenue, kilowatt-hour consumption, number of consumers, average monthly consumption, average monthly bill and the net average cost per kilowatt-hour both for domestic and for commercial light service in each municipality. For power service this statement shows the revenue, the number of consumers and the average horsepower supplied by the municipal utility.† For further reference to this informative statement, consult the special introduction to it on page 310.

Statement "E" presents the cost per horsepower of the power provided for and delivered to the municipalities by the Commission, and the local rates to consumers in force in the respective municipalities, during the year 1945, for domestic service, for commercial light service and for power service.

*In 1939 and 1940 a number of municipalities asked permission to take power cost adjustments into the following year, to facilitate the earlier closing of their books. On this account, from 1941 on, with few exceptions the Balance Sheet shows the previous year's equity in Hydro Commission properties; and the Cost of Power in the Operating Statement includes the previous year's adjustments.

†The statistics include retail power only. Wholesale industrial power as supplied by the Commission direct, is reported in Section IX.

CONSOLIDATED

YEAR.....	1938	1939	1940
Number of municipalities included.....	288	293	295
ASSETS	\$ c.	\$ c.	\$ c.
Lands and buildings.....	10,894,019.12	11,030,623.50	11,218,258.69
Substation equipment.....	23,614,597.80	23,780,655.18	24,282,151.78
Distribution system—overhead.....	23,371,092.61	23,925,362.60	24,653,458.44
Distribution system—underground.....	6,134,283.64	6,202,371.87	6,214,957.69
Line transformers.....	10,494,789.40	10,855,346.75	11,030,643.29
Meters.....	9,539,413.66	9,838,600.98	9,927,971.40
Street lighting equipment—regular.....	2,697,047.84	2,798,171.62	2,879,996.65
Street lighting equipment—ornamental.....	1,516,059.81	1,518,035.24	1,534,320.08
Miscellaneous construction expenses.....	4,444,880.40	4,147,280.84	4,341,259.94
Steam or hydraulic plant.....	497,974.74	498,650.81	498,575.87
Old plant.....	4,897,097.67	4,894,655.59	1,332,606.12
Total plant.....	98,101,256.69	99,489,754.98	97,914,199.95
Bank and cash balance.....	3,043,609.87	3,107,087.65	4,462,197.18
Securities and investments.....	4,832,322.57	4,850,531.80	5,315,855.49
Accounts receivable.....	4,106,655.16	4,774,816.58	4,715,848.86
Inventories.....	1,393,158.18	1,496,275.62	1,630,987.28
Sinking fund on local debentures.....	10,397,958.20	11,032,594.44	5,829,573.87
Equity in H-E.P.C. systems.....	44,254,118.64	48,615,296.94	52,457,676.76
Other assets.....	178,534.60	156,520.39	258,395.70
Total assets.....	166,307,613.91	173,522,878.40	172,584,735.09
LIABILITIES			
Debenture balance.....	29,987,512.34	27,962,685.51	20,636,363.20
Accounts payable.....	3,334,802.82	3,100,565.26	3,095,613.25
Bank overdraft.....	108,753.61	180,064.81	187,038.91
Other liabilities.....	3,120,619.84	2,998,174.20	3,004,624.22
Total liabilities.....	36,551,688.61	34,241,489.78	26,923,638.58
RESERVES			
For equity in H-E.P.C. systems.....	44,254,118.64	48,615,296.94	52,457,676.76
For depreciation.....	22,583,476.69	24,046,526.92	25,733,628.33
Other reserves.....	2,814,785.08	3,090,471.34	3,326,591.65
Total reserves.....	69,652,380.41	75,752,295.20	81,517,896.74
SURPLUS			
Debentures paid.....	30,890,189.93	32,866,660.82	37,245,922.84
Local sinking fund.....	10,397,958.20	11,032,594.44	5,829,573.87
Operating surplus.....	18,815,396.76	19,629,838.16	21,067,703.06
Total surplus.....	60,103,544.89	63,529,093.42	64,143,199.77
Total liabilities, reserves and surplus.....	166,307,613.91	173,522,878.40	172,584,735.09
Percentage of net debt to total assets.....	22.4	19.3	17.4

BALANCE SHEET

1941	1942	1934	1944	1945
296	297	298	298	304
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
11,488,173.96	11,546,286.55	11,664,887.81	11,713,108.74	11,879,469.56
24,896,262.26	25,359,352.47	25,392,202.96	25,805,344.10	26,201,620.92
25,228,363.52	25,572,132.86	25,773,224.22	26,075,416.77	26,835,864.78
6,391,399.25	6,446,133.75	6,451,393.47	6,385,742.19	6,539,797.63
11,817,440.89	12,209,624.79	12,353,367.17	12,698,080.21	13,360,997.73
10,644,655.81	10,938,305.73	11,117,612.15	11,339,479.64	11,742,720.68
2,940,055.38	2,928,896.30	2,903,704.11	2,926,365.70	3,066,246.06
1,540,369.82	1,543,717.00	1,542,294.82	1,542,819.42	1,551,628.63
4,366,893.41	4,091,006.92	3,740,027.08	3,414,557.25	3,469,256.69
445,118.58	422,172.72	397,576.71	388,022.38	1,005,980.83
1,329,860.41	1,028,830.05	936,561.90	820,607.24	692,517.55
101,088,593.29	102,086,459.14	102,272,852.40	103,089,543.64	106,346,101.06
2,991,173.27	2,482,945.50	2,341,996.68	1,947,073.36	1,744,827.39
8,368,139.57	12,592,455.09	17,037,057.29	21,245,620.67	27,530,379.33
4,116,252.29	3,614,066.68	3,347,449.72	3,710,514.76	3,682,108.35
1,984,025.53	2,047,430.38	1,750,799.42	1,622,866.57	1,735,925.21
5,530,647.79	5,445,199.46	5,028,551.56	4,880,499.77	4,952,718.62
52,458,225.18	57,080,491.77	62,031,673.13	69,486,548.01	75,002,351.38
226,034.26	197,190.92	537,366.80	192,661.46	290,022.85
176,763,091.18	185,546,238.94	194,347,747.00	206,175,328.24	221,284,434.19
17,805,415.36	16,184,642.53	13,657,032.51	11,612,359.10	10,612,595.02
3,088,145.27	2,399,404.91	2,699,630.77	1,701,420.70	2,528,081.42
302,744.63	105,571.05	118,834.40	174,491.81	429,585.64
2,987,132.70	2,806,844.10	2,618,742.94	2,584,979.26	2,707,515.21
24,183,437.96	21,496,462.59	19,094,240.62	16,073,250.87	16,277,777.29
52,458,225.18	57,080,491.77	62,031,673.13	69,486,548.01	75,002,351.38
27,795,985.72	29,840,207.73	32,138,469.64	34,006,953.37	36,331,919.08
3,592,384.90	4,907,609.88	5,449,398.96	6,308,596.82	6,979,074.47
83,846,595.80	91,828,309.38	99,619,541.73	109,802,098.20	118,313,344.93
39,943,340.75	41,183,741.27	43,552,091.22	45,475,788.84	47,340,018.06
5,530,647.79	5,445,199.46	5,028,551.56	4,880,499.77	4,952,718.62
23,259,068.88	25,592,526.24	27,053,321.87	29,943,690.56	34,400,575.29
68,733,057.42	72,221,466.97	75,633,964.65	80,299,979.17	86,693,311.97
176,763,091.18	185,546,238.94	194,347,747.00	206,175,328.24	221,284,434.19
14.6	11.9	10.0	7.4	7.0

CONSOLIDATED

YEAR.....	1938	1939	1940
Number of municipalities included.....	288	293	295
EARNINGS	\$ c.	\$ c.	\$ c.
Domestic service.....	12,607,601.30	13,038,748.37	13,705,710.99
Commercial light service.....	6,727,374.48	7,077,144.74	7,642,679.90
Commercial power service.....	10,527,631.36	10,957,719.66	12,458,439.08
Municipal power.....	1,677,069.34	1,760,977.25	1,741,235.23
Street lighting.....	1,813,555.27	1,831,090.33	1,842,443.63
Merchandise.....	26,588.18	28,874.86	56,818.83
Miscellaneous.....	602,012.80	595,235.49	577,959.98
Total earnings.....	33,981,832.73	35,289,790.70	38,025,287.44
EXPENSES			
Cost of power supplied by H-E.P.C....	20,575,457.95	21,855,595.20	23,756,863.14
Substation operation.....	493,651.06	516,987.25	544,234.10
Substation maintenance.....	351,013.94	377,013.25	322,375.73
Distribution system, operation and maintenance.....	921,064.94	943,859.59	930,055.53
Line transformer maintenance.....	94,040.92	95,577.72	101,617.16
Meter maintenance.....	384,357.58	386,145.71	372,562.74
Consumers' premises expenses.....	483,012.96	488,980.55	568,135.41
Street lighting, operation and maintenance.....	373,065.44	384,071.55	366,911.70
Promotion of business.....	309,626.97	317,467.64	293,022.17
Billing and collecting.....	987,040.66	1,008,065.66	1,020,648.93
General office, salaries and expenses....	931,120.05	966,550.98	960,065.70
Undistributed expense.....	430,609.32	463,456.65	555,414.26
Truck operation and maintenance.....	84,111.05	80,263.46	79,848.64
Interest.....	1,642,663.25	1,594,040.32	1,464,381.29
Sinking fund and principal payments on debentures.....	2,424,098.70	2,420,441.30	2,389,723.60
Total expenses.....	30,484,934.79	31,898,516.83	33,725,860.10
Surplus.....	3,496,897.94	3,391,273.87	4,299,427.34
Depreciation and other reserves.....	2,451,529.46	2,524,364.33	2,644,127.10
Surplus less depreciation.....	1,045,368.48	866,909.54	1,655,300.24

OPERATING REPORT

1941	1942	1943	1944	1945
296	297	298	298	304
14,287,828.19 7,885,693.81 14,591,053.03 1,832,379.38 1,880,560.01 58,695.51 526,771.53	14,874,937.14 7,604,860.27 15,433,320.91 2,026,826.92 1,820,216.28 50,276.58 680,825.29	14,933,681.48 6,713,348.61 15,687,273.31 2,031,027.12 1,686,149.29 31,300.28 782,170.04	15,371,752.19 7,219,403.43 16,222,143.48 2,111,454.22 1,729,320.48 35,378.31 897,433.28	15,543,145.28 8,150,923.90 15,544,685.89 2,134,062.24 1,922,281.13 65,590.57 1,097,719.02
41,062,981.46	42,491,263.39	41,864,950.13	43,586,885.39	44,457,808.03
26,017,260.84 552,820.54 316,677.27	26,459,900.78 581,259.02 361,643.95	26,587,877.32 612,227.01 370,797.74	26,937,460.31 611,878.05 419,983.12	26,633,166.70 654,305.46 423,473.57
993,886.44 114,304.18 409,252.72 604,642.97	1,087,818.81 133,888.95 440,877.18 513,565.10	1,143,720.84 145,094.88 443,307.27 527,810.36	1,147,646.14 145,701.29 445,437.44 513,953.14	1,243,381.36 155,240.82 470,203.18 581,603.20
379,905.55 262,910.03 1,074,173.90 1,053,367.83 480,317.80 93,032.89 1,027,985.34	397,614.93 193,692.33 1,171,345.63 1,067,535.39 553,599.71 99,379.20 973,383.83	380,405.50 171,894.14 1,226,185.63 1,117,334.29 510,448.34 94,830.33 844,161.48	445,945.93 156,566.54 1,264,759.35 1,139,174.46 522,204.17 104,222.84 707,925.20	487,565.20 171,063.89 1,305,542.48 1,201,915.79 640,831.75 123,720.21 710,300.94
2,248,937.42	2,006,148.29	1,871,119.81	1,564,537.45	1,255,825.57
35,629,475.72	36,041,653.10	36,047,214.94	36,127,395.43	36,058,140.12
5,433,505.74 2,933,730.99	6,449,610.29 3,586,198.82	5,817,735.19 3,867,107.58	7,459,489.96 3,521,114.82	8,399,667.91 3,953,728.83
2,499,774.75	2,863,411.47	1,950,627.61	3,938,375.14	4,445,939.08

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM

Municipality.....	Acton	Agincourt	Ailsa Craig 434	Alexandria	Alliston
Population.....	1,876	P.V.		1,904	1,542
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	1,627.38			202.00	675.73
Substation equipment.....	2,318.36				
Distribution system—overhead....	27,799.70	9,697.92	7,957.08	28,512.12	30,527.37
Distribution system—underground.					
Line transformers.....	16,944.56	5,952.83	3,814.67	10,034.52	10,490.74
Meters.....	13,174.14	3,651.28	2,877.91	8,893.42	9,872.42
Street light equipment, regular....	2,530.79	1,030.30	457.58	2,233.59	1,598.99
Street light equipment, ornamental					
Miscellaneous construction expense	1,680.56	23.30	492.36	5,520.56	2,555.64
Steam or hydraulic plant.....					
Old plant.....				4,466.89	7,846.49
Total plant.....	66,075.49	20,355.63	15,599.60	59,863.10	63,567.38
Bank and cash balance.....	40.00	188.81	1,483.94	1,582.21	594.15
Securities and investments.....	25,000.00	14,000.00	9,500.00	33,000.00	20,500.00
Accounts Receivable.....	792.63	1,540.43	798.99	2,588.29	197.46
Inventories.....	1,191.29				9.49
Sinking fund on local debentures					
Equity in H-E.P.C. systems.....	100,331.07	15,887.80	20,424.82	39,473.20	33,279.73
Other assets.....	1.57				
Total assets.....	193,432.05	51,972.67	47,807.35	136,506.80	118,148.21
LIABILITIES					
Debenture balance.....					4,461.32
Accounts payable.....	218.43	502.74	281.86	2.68	501.22
Bank overdraft.....	103.67				
Other liabilities.....	1,009.49		140.00	1,054.71	419.00
Total liabilities.....	1,331.59	502.74	421.86	1,057.39	5,381.54
RESERVES					
For equity in H-E.P.C. systems....	100,331.07	15,887.80	20,424.82	39,473.20	33,279.73
For depreciation.....	15,589.91	5,267.08	8,595.48	25,755.83	21,093.09
Other reserves.....	2,200.00	1,542.90		1,858.06	7,832.51
Total reserves.....	118,120.98	22,697.78	29,020.30	67,087.09	62,205.33
SURPLUS					
Debentures paid.....	14,500.00	8,072.65	6,883.38	48,133.84	35,538.68
Local sinking fund.....					
Operating surplus.....	59,479.48	20,699.50	11,481.81	20,228.48	15,022.66
Total surplus.....	73,979.48	28,772.15	18,365.19	68,362.32	50,561.34
Total liabilities, reserves and surplus.	193,432.05	51,972.67	47,807.35	136,506.80	118,148.21
Percentage of net debt to total assets.	1.4	1.4	1.6	1.1	6.3

“A”

Hydro Municipalities as at December 31, 1945

Almonte 2,136	Alvinston 620	Amherst- burg 2,709	Ancaster V.A.	Apple Hill P.V.	Arkona 376	Arnprior 4,049
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
7,037.25	133.56			169.06		
1,349.94						
33,602.22	16,969.97	40,708.09	21,664.39	3,009.09	10,165.20	29,537.69
17,239.09	3,801.25	23,732.59	16,482.63	1,421.37	2,892.78	12,774.55
12,345.80	3,934.84	17,921.18	7,017.60	1,376.05	2,078.18	15,627.88
5,980.06	1,301.74	2,070.17	1,547.72	421.12	750.31	6,119.35
		5,598.72				
500.00	890.94	5,042.27	702.02	218.18	247.77	105.39
105,153.80				709.55	1,030.30	
183,208.16	27,032.30	95,073.02	47,414.36	7,324.42	17,164.54	64,164.86
1,643.79	1,270.16	2,180.83	3,468.79	1,757.12	270.08	
24,950.00	11,000.00	41,350.00	7,500.00	4,000.00	4,000.00	39,000.00
2,052.28	145.30	1,326.55	1,322.48	84.87	22.06	360.16
3,823.73			115.31			1,613.54
	20,359.14	76,639.86	24,776.99	4,513.13	8,672.86	13,924.59
		7.12	52.00			
215,677.96	59,806.90	216,577.38	84,649.93	17,679.54	30,129.54	119,063.15
31,258.25		2,617.48	4,279.33			16,879.57
860.77	22.36	518.70	1,735.80	42.72	2.30	125.84
						3,284.26
758.17	79.00	6,753.64	293.17		28.00	2,035.48
32,877.19	101.36	9,889.82	6,308.30	42.72	30.30	22,325.15
	20,359.14	76,639.86	24,776.99	4,513.13	8,672.86	13,924.59
40,482.36	11,642.65	33,437.90	14,008.88	3,286.31	5,078.77	8,503.16
	59.50	10,513.56	38.69			10,000.00
40,482.36	32,061.29	120,591.32	38,824.56	7,799.44	13,751.63	32,427.75
40,741.75	23,529.24	29,436.12	9,830.95	6,000.00	13,112.83	38,589.56
101,576.66	4,115.01	56,660.12	29,686.12	3,837.38	3,234.78	25,720.69
142,318.41	27,644.25	86,096.24	39,517.07	9,837.38	16,347.61	64,310.25
215,677.96	59,806.90	216,577.38	84,649.93	17,679.54	30,129.54	119,063.15
15.2	0.3	3.2	10.5	0.4	0.1	21.2

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Arthur	Athens	Aurora	Aylmer	Ayr
Population.....	836	643	2,990	2,474	718
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....			1,000.00	11,147.41	125.00
Substation equipment.....			1,400.00		
Distribution system—overhead....	18,698.67	14,510.07	27,536.79	31,051.58	13,258.38
Distribution system—underground.					
Line transformers.....	5,068.24	2,800.57	23,724.92	21,076.80	7,483.72
Meters.....	4,694.20	3,338.46	15,930.08	14,736.31	4,770.03
Street light equipment, regular....	796.21	698.90	6,227.00	5,251.52	1,162.14
Street light equipment, ornamental					
Miscellaneous construction expense	321.48	1,185.31	862.13	1,902.27	822.49
Steam or hydraulic plant.....					
Old plant.....	1,086.62			6,469.47	4,002.53
Total plant.....	30,665.42	22,533.31	76,680.92	91,635.36	31,624.29
Bank and cash balance.....	6.55	291.39	778.51	1,531.49	1,092.02
Securities and investments.....	9,500.00	7,500.00	12,000.00	17,000.00	3,500.00
Accounts Receivable.....	69.53	48.80	392.33	1,252.39	541.56
Inventories.....				282.01	
Sinking fund on local debentures..					
Equity in H-E.P.C. systems.....	25,992.45	9,015.48	5,662.07	61,525.82	20,795.52
Other assets.....				543.83	
Total assets.....	66,233.95	39,388.98	95,513.83	173,770.90	57,553.39
LIABILITIES					
Debenture balance.....	4,844.40	3,160.61		3,003.67	1,422.68
Accounts payable.....	0.33	407.32	1.47	781.31	1,200.00
Bank overdraft.....					
Other liabilities.....	425.00		478.00	869.66	23.00
Total liabilities.....	5,269.73	3,567.93	479.47	4,654.64	2,645.68
RESERVES					
For equity in H-E.P.C. systems....	25,992.45	9,015.48	5,662.07	61,525.82	20,795.52
For depreciation.....	21,732.87	7,066.67	36,405.85	25,197.48	9,109.28
Other reserves.....		206.06		9,578.99	517.29
Total reserves.....	47,725.32	16,288.21	42,067.92	96,302.29	30,422.09
SURPLUS					
Debentures paid.....	20,155.60	10,839.39		35,698.25	16,080.70
Local sinking fund.....					
Operating surplus.....	*6,916.70	8,693.45	52,966.44	37,115.72	8,404.92
Total surplus.....	13,238.90	19,532.84	52,966.44	72,813.97	24,485.62
Total liabilities, reserves and surplus.	66,233.95	39,388.98	95,513.83	173,770.90	57,553.39
Percentage of net debt to total assets.	14.0	11.7	0.5	4.1	7.2

* Deficit.

"A"—Continued

Hydro Municipalities as at December 31, 1945

Baden	Barrie	Bath	Beachville	Beamsville	Beaverton	Beeton
P.V.	10,469	296	P.V.	1,306	786	542
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
660.64	16,550.75		176.13		499.50	
	18,884.56					428.50
10,030.70	75,636.67	7,181.04	15,641.53	17,865.67	24,802.09	12,018.92
	66,582.89					
8,647.60	54,571.16	1,694.15	4,841.14	10,530.03	9,303.64	2,985.94
4,743.66	60,418.40	1,141.83	3,979.94	8,524.96	7,525.82	2,446.25
738.66	13,418.36	554.37	444.23	2,892.74	1,316.79	1,169.54
33.57	2,072.96	727.38	95.76		2,160.66	1,428.98
24,854.83	308,135.75	11,298.77	25,178.73	39,813.40	45,608.50	20,478.13
360.69	5,280.41	935.54	509.79	1,023.65	2,456.94	1,013.72
6,500.00	105,000.00		17,500.00	16,000.00	7,200.00	11,500.00
801.62	1,849.66	47.25	1,388.10	175.32	20.24	150.02
12.06	6,134.99					
43,972.18	221,065.67	3,071.30	57,253.32	9,186.94	27,654.46	20,999.05
	25,485.24					
76,501.38	672,951.72	15,352.86	101,829.94	66,199.31	82,940.14	54,140.92
	1,926.84	3,566.61				2,657.27
72.86	718.22		57.15	481.99	199.69	480.40
10.00	5,390.28	80.00		743.01	645.17	95.00
82.86	8,035.34	3,646.61	57.15	1,225.00	844.86	3,232.67
43,972.18	221,065.67	3,071.30	57,253.32	9,186.94	27,654.46	20,999.05
5,078.17	147,346.71	3,025.67	10,938.38	9,944.25	21,079.94	12,436.69
1,000.00	35,250.62				400.00	1,590.68
50,050.35	403,663.00	6,096.97	68,191.70	19,131.19	49,134.40	35,026.42
5,000.00	63,438.84	3,933.39	5,536.66	37,500.00	15,000.00	12,342.73
21,368.17	197,814.54	1,675.89	28,044.43	8,343.12	17,960.88	3,539.10
26,368.17	261,253.38	5,609.28	33,581.09	45,843.12	32,960.88	15,881.83
76,501.38	672,951.72	15,352.86	101,829.94	66,199.31	82,940.14	54,140.92
0.3	1.8	29.7	0.1	2.1	1.5	9.8

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Belle River	Belleville	Blenheim	Bloom- field 618	Blyth
Population.....	845	15,642	1,873	618	632
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	204.20	43,632.50	14,465.35		
Substation equipment.....		89,268.14	1,264.64		
Distribution system—overhead.....	22,198.75	141,191.49	36,056.14	11,246.97	11,942.56
Distribution system—underground.....					
Line transformers.....	6,059.74	50,468.91	16,585.16	2,125.82	2,664.45
Meters.....	5,835.37	73,977.10	12,851.52	3,397.38	3,237.27
Street light equipment, regular.....	1,662.57	24,066.25	3,859.04	1,040.99	1,554.68
Street light equipment, ornamental.....			1,482.97		
Miscellaneous construction expense	212.25	13,606.02	532.42	1,403.42	254.59
Steam or hydraulic plant.....					
Old plant.....					
Total plant.....	36,172.88	436,210.41	87,097.24	19,214.58	19,653.55
Bank and cash balance.....	825.51	1,237.74	634.59	698.00	
Securities and investments.....	7,000.00	90,000.00	6,000.00	12,100.00	10,000.00
Accounts Receivable.....	74.11	17,121.99	321.62	59.55	631.22
Inventories.....		11,266.70	702.28		
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	14,922.69	255,969.76	52,104.74	8,862.47	13,828.82
Other assets.....					
Total assets.....	58,995.19	811,806.60	146,860.47	40,934.60	44,113.59
LIABILITIES					
Debenture balance.....				1,553.54	
Accounts payable.....		777.50	1,716.95	0.24	1,040.28
Bank overdraft.....					837.50
Other liabilities.....	220.00	12,537.70	1,881.72	138.00	200.00
Total liabilities.....	220.00	13,315.20	3,598.67	1,691.78	2,077.86
RESERVES					
For equity in H-E.P.C. systems.....	14,922.69	255,969.76	52,104.74	8,862.47	13,828.82
For depreciation.....	12,112.06	88,999.55	28,022.46	8,493.16	8,091.31
Other reserves.....	1,100.00	17,915.69	7,221.65		
Total reserves.....	28,134.75	362,885.00	87,348.85	17,355.63	21,920.13
SURPLUS					
Debentures paid.....	8,500.00	176,000.00	14,000.00	9,646.46	16,032.52
Local sinking fund.....					
Operating surplus.....	22,140.44	259,606.40	41,912.95	12,240.73	4,083.08
Total surplus.....	30,640.44	435,606.40	55,912.95	21,887.19	20,115.60
Total liabilities, reserves and surplus.....	58,995.19	811,806.60	146,860.47	40,934.60	44,113.59
Percentage of net debt to total assets.....	0.5	2.4	2.3	5.3	6.9

“A”—Continued

Hydro Municipalities as at December 31, 1945

Bolton 609	Bothwell 605	Bowmanville 3,820	Bradford 1,034	Braeside 367	Brampton 6,157	Brantford 34,372
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	.....	35,685.49	.....	.....	5,665.93	115,881.10
.....	.....	894.47	388.50	.....	35,006.39	318,577.03
11,526.25	7,779.84	50,233.39	23,909.40	3,157.90	56,367.24	289,792.28
.....
5,363.31	3,359.08	13,923.80	6,503.93	1,541.91	43,179.75	227,135.52
4,422.07	3,924.17	22,861.04	7,161.20	1,279.90	34,951.40	175,081.19
887.89	3,571.49	8,433.47	672.98	43.02	12,334.99	27,724.92
.....	1,131.22	.....	.....	.....	.....	37,500.00
1,043.48	868.55	2,660.69	2,172.88	.....	3,612.98	15,791.06
.....
1,554.60	.....	.....	.....	.....	.....	32,400.00
.....
24,797.60	20,634.35	134,692.35	40,808.89	6,022.73	191,118.68	1,239,883.10
.....
874.06	16.12	10,487.86	507.63	423.03	257.71	3,393.03
13,500.00	15,000.00	100,000.00	12,800.00	.....	67,200.00	288,500.00
137.05	60.99	4,151.39	1,423.65	1,285.55	331.60	24,144.57
.....	.....	7,274.57	.....	.....	156.71	13,896.09
.....
23,862.34	22,763.32	94,753.51	24,725.21	.....	236,228.03	1,297,306.73
.....	.....	1.73	45.00	.....	6.84	162.66
.....
63,171.05	58,474.78	351,361.41	80,310.38	7,731.31	495,299.57	2,807,286.18
.....
.....	.....	.....	4,090.88	5,798.52	.....	.....
63.77	.....	455.37	346.80	1,414.70	444.86	6,192.14
.....	.....	.....	.....	.....	2,465.09	.....
146.89	1,252.17	1,769.32	707.21	120.00	1,670.00	64,253.59
.....
210.66	1,252.17	2,224.69	5,144.89	7,333.22	4,579.95	70,545.73
.....
.....
23,862.34	22,763.32	94,753.51	24,725.21	.....	236,228.03	1,297,306.73
9,990.18	9,991.99	23,651.60	16,288.19	120.00	87,108.64	542,412.27
.....	15.13	.....	2,629.88	.....	25,054.55	47,768.53
.....
33,852.52	32,770.44	118,405.11	43,643.28	120.00	348,391.22	1,887,487.53
.....
.....
12,500.00	5,534.19	71,000.00	21,109.12	201.48	69,050.64	530,000.00
.....
16,607.87	18,917.98	159,731.61	10,413.09	76.61	73,277.76	319,252.92
.....
29,107.87	24,452.17	230,731.61	31,522.21	278.09	142,328.40	849,252.02
.....
63,171.05	58,474.78	351,361.41	80,310.38	7,731.31	495,299.57	2,807,286.18
.....
0.5	0.3	0.9	9.2	94.8	1.8	2.2

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Brantford Twp. V.A.	Brechin P.V.	Bridgeport P.V.	Brigden P.V.	Brighton 1,581
Population.....					
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	228.15			1,482.03	600.00
Substation equipment.....	16,620.00				
Distribution system—overhead....	85,403.34	2,135.59	10,618.09	8,867.44	20,834.17
Distribution system—underground					
Line transformers.....	24,492.27	1,495.73	4,294.28	3,818.17	8,190.52
Meters.....	24,988.47	889.42	3,682.10	2,634.62	9,032.32
Street light equipment, regular....	7,529.00	248.55	1,656.87	509.23	1,305.85
Street light equipment, ornamental					
Miscellaneous construction expense	7,817.74	546.92	623.09	1,090.03	578.59
Steam or hydraulic plant.....					
Old plant.....					
Total plant.....	167,078.97	5,316.21	20,874.43	18,401.52	40,541.45
Bank and cash balance.....	281.00	2,605.05	340.55	559.76	
Securities and investments.....	43,280.00	500.00	7,000.00	7,800.00	19,000.00
Accounts Receivable.....	1,047.87	58.90	135.83	169.47	3,203.58
Inventories.....	2,207.40	24.12			4,433.04
Sinking fund on local debentures..					
Equity in H-E.P.C. systems.....	51,791.08	9,943.97	9,318.68	15,746.38	17,094.98
Other assets.....			52.51		32.79
Total assets.....	265,686.32	18,448.25	37,722.00	42,677.13	84,305.84
LIABILITIES					
Debenture balance.....	60,000.00	458.86	2,238.06		3,506.46
Accounts payable.....	349.31	253.48	33.74	57.65	54.99
Bank overdraft.....	5,829.84		168.13		844.66
Other liabilities.....	1,853.40	37.85	280.00	15.00	1,109.39
Total liabilities.....	68,032.55	750.19	2,719.93	72.65	5,515.50
RESERVES					
For equity in H-E.P.C. systems....	51,791.08	9,943.97	9,318.68	15,746.38	17,094.98
For depreciation.....	40,046.67	2,647.59	8,638.14	6,948.17	8,477.27
Other reserves.....	104.82	47.11		97.24	4,227.45
Total reserves.....	91,942.57	12,638.67	17,956.82	22,791.79	29,799.70
SURPLUS					
Debentures paid.....	57,125.66	2,752.06	10,129.97	8,000.00	21,493.54
Local sinking fund.....					
Operating surplus.....	48,585.54	2,307.33	6,915.28	11,812.69	27,497.10
Total surplus.....	105,711.20	5,059.39	17,045.25	19,812.69	48,990.64
Total liabilities, reserves and surplus.	265,686.32	18,448.25	37,722.00	42,677.13	84,305.84
Percentage of net debt to total assets.	31.8	0.8	9.6	0.3	8.2

"A"—Continued

Hydro Municipalities as at December 31, 1945

Brockville 11,112	Brussels 730	Burford P.V.	Burgess- ville P.V.	Burlington 4,311	Caledonia 1,395	Campbell ville P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
45,591.03		202.00		12,500.00	656.01	
39,212.30				3,900.00		
102,747.67	15,640.85	9,921.61	3,864.16	90,706.52	20,505.76	3,084.60
56,887.58	4,656.44	7,284.86	3,137.18	36,603.41	7,869.29	1,323.46
56,135.33	4,887.33	4,865.77	1,510.28	23,301.62	9,187.07	891.74
28,035.84	1,707.79	437.14	261.02	3,822.78	2,082.68	335.61
608.52	1,537.56	684.04	457.22	7,646.87	803.00	6.82
329,218.27	28,429.97	23,395.42	9,229.86	178,481.20	41,103.81	5,642.23
11,151.01	1,633.26	523.73	234.99	3,713.42	1,400.18	33.58
110,000.00	14,000.00	8,000.00	3,800.00	17,500.00	8,700.00	4,100.00
1,601.75	239.79	79.96	6.42	8,164.54	236.10	27.02
5,146.60					1,697.13	
241,712.49	18,014.76	19,087.99	7,171.08		31,546.74	3,785.41
408.31	0.22			*40,103.62		
699,238.43	62,318.00	51,087.10	20,442.35	247,962.78	84,683.96	13,588.24
1,753.49		38.96	316.59	160,500.00		
				7,179.86	59.49	28.85
2,749.70	115.28	100.30	15.00	2,867.75	382.19	
4,503.19	115.28	139.26	331.59	170,547.61	441.68	28.85
241,712.49	18,014.76	19,087.99	7,171.08		31,546.74	3,785.41
106,186.47	11,603.00	6,333.24	4,636.19	19,305.50	7,556.69	1,960.71
13,917.81		1,000.00		40,103.62		
361,816.77	29,617.76	26,421.23	11,807.27	59,409.12	39,103.43	5,746.12
226,657.54	21,000.00	9,000.00	3,500.00		4,624.00	5,447.77
106,260.93	11,584.96	15,526.61	4,803.49	18,006.05	40,514.85	2,365.50
332,918.47	32,584.96	24,526.61	8,303.49	18,006.05	45,138.85	7,813.27
699,238.43	62,318.00	51,087.10	20,442.35	247,962.78	84,683.96	13,588.24
0.9	0.3	0.4	2.5	82.0	0.8	0.3

* Not used in figuring net debt to total assets.

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Canning- ton 718	Cardinal	Carleton Place 4,217	Cayuga	Chatham
Population.....		1,641		652	17,807
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....			13,390.32		120,444.01
Substation equipment.....			2,471.63		137,358.67
Distribution system—overhead....	12,310.47	14,240.25	47,969.70	21,585.86	149,289.10
Distribution system—underground.					92,852.98
Line transformers.....	6,472.92	4,132.27	14,832.32	7,893.44	109,961.76
Meters.....	5,209.81	3,974.67	20,565.69	4,635.80	85,215.37
Street light equipment, regular....	1,096.47	520.65	6,780.17	1,357.57	21,749.52
Street light equipment, ornamental					35,426.10
Miscellaneous construction expense	508.73	542.17	3,095.26	196.15	32,814.46
Steam or hydraulic plant.....					
Old plant.....		3,474.80	5,289.19		42,752.31
Total plant.....	25,598.40	26,884.81	114,394.28	35,668.82	827,864.28
Bank and cash balance.....	1,939.03	935.31	6,362.79	1,845.30	50.00
Securities and investments.....	7,000.00	5,500.00	47,500.00	5,200.00	200,000.00
Accounts Receivable.....	393.00	186.90	856.41	124.28	28,615.51
Inventories.....	240.15		1,986.70	373.07	8,964.16
Sinking fund on local debentures.					
Equity in H-E.P.C. systems.....	20,858.07	9,120.59	108,729.13	13,763.78	551,646.76
Other assets.....				1.49	
Total assets.....	56,028.65	42,627.61	279,829.31	56,976.74	1,617,140.71
LIABILITIES					
Debenture balance.....		4,611.12	7,767.66		62,282.96
Accounts payable.....	252.82	217.10	3,072.06	2,455.32	
Bank overdraft.....					27,205.61
Other liabilities.....	60.00	5.00	1,790.40	745.00	43,276.58
Total liabilities.....	312.82	4,833.22	12,630.12	3,200.32	132,765.15
RESERVES					
For equity in H-E.P.C. systems....	20,858.07	9,120.59	108,729.13	13,763.78	551,646.76
For depreciation.....	15,297.06	4,506.73	29,591.47	10,268.28	225,125.70
Other reserves.....	564.05	51.52	878.98	160.46	97,828.16
Total reserves.....	36,719.18	13,678.84	139,199.58	24,192.52	874,600.62
SURPLUS					
Debentures paid.....	15,000.00	10,388.88	58,232.34	20,000.00	307,717.04
Local sinking fund.....					
Operating surplus.....	3,996.65	13,726.67	69,767.27	9,583.90	302,057.90
Total surplus.....	18,996.65	24,115.55	127,999.61	29,583.90	609,774.94
Total liabilities, reserves and surplus.	56,028.65	42,627.61	279,829.31	56,976.74	1,617,140.71
Percentage of net debt to total assets.	0.9	14.4	7.4	7.4	9.4

"A"—Continued

Hydro Municipalities as at December 31, 1945

Chatsworth 323	Chesley 1,550	Chesterville 1,050	Chippawa 1,251	Clifford 436	Clinton 2,037	Cobden 627
\$ c. 364.89	\$ c. 6,000.00	\$ c. 335.00	\$ c. 1,434.46	\$ c. 10,227.74	\$ c. 11,473.46	\$ c. 4,945.65
5,250.67	2,305.58	10,697.76	16,284.07	8,353.86	26,731.09	2,090.10
2,309.52	22,746.63	4,641.14	9,521.89	2,025.61	13,300.33	1,909.26
2,038.18	9,948.94	5,333.10	6,428.70	2,679.28	12,077.28	499.69
573.12	8,531.40	593.64	3,141.60	1,014.93	5,705.10	45.86
517.48	2,506.98	662.37	529.00	37.44	4,229.52	2,853.85
11,053.86	3,309.73	22,263.01	37,339.72	14,111.12	83,744.52	12,344.41
586.96		107.45	1,764.66	415.93	1,059.98	1,356.49
3,000.00	13,000.00	14,000.00	11,500.00	5,000.00	28,500.00	2,000.00
56.29	49.84	1,736.30	122.40	48.00	818.33	41.37
	835.81	681.35	80.65		3,688.05	
6,362.72	49,704.81	34,848.52	23,569.82	10,306.45	64,474.80	2,863.18
			0.76			
21,059.83	118,939.72	73,636.63	74,378.01	29,881.50	182,285.68	18,605.45
33.07	33.69	42.90		3,826.82		1,338.57
170.36	1,597.59	102.00	970.00	891.41	525.83	
203.43		144.90	970.00	5.00	651.45	157.50
	1,631.28			4,723.23	1,177.28	1,496.07
6,362.72	49,704.81	34,848.52	23,569.82	10,306.45	64,474.80	2,863.18
4,845.45	20,764.50	9,609.67	8,856.21	4,771.42	27,628.58	613.27
	3,500.00				10,930.24	
11,208.17	73,969.31	44,458.19	32,426.03	15,077.87	103,033.62	3,476.45
5,400.00	27,500.00	6,500.00	13,350.00	4,173.18	44,500.00	6,464.70
4,248.23	15,839.13	22,533.54	27,631.98	5,907.22	33,574.78	7,168.23
9,648.23	43,339.13	29,033.54	40,981.98	10,080.40	78,074.78	13,632.93
21,059.83	118,939.72	73,636.63	74,378.01	29,881.50	182,285.68	18,605.45
1.4	2.3	0.4	1.8	24.1	1.0	9.5

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Cobourg	Colborne	Coldwater	Collingwood 6,318	Comber P.V.
Population.....	5,022	872	580	6,318	P.V.
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	31,397.70	.....	275.00	15,950.08	62.00
Substation equipment.....	1,668.35	.....	.....	24,954.35	.....
Distribution system—overhead....	86,567.66	11,284.81	10,017.75	63,282.78	8,018.82
Distribution system—underground..	.....	.....	.....	.....	.....
Line transformers.....	28,474.09	2,175.11	6,108.01	26,682.53	5,441.92
Meters.....	33,589.41	3,865.17	3,530.46	29,891.80	3,214.64
Street light equipment, regular....	14,168.37	1,702.99	775.02	3,354.59	423.35
Street light equipment, ornamental..	.....	.....	.....	.....	.....
Miscellaneous construction expense	3,025.81	2,555.90	164.28	822.52	1,015.01
Steam or hydraulic plant.....	.....	.....	.....	.....	.....
Old plant.....	.....	.....	.....	.....	.....
Total plant.....	198,891.39	21,583.98	20,870.52	164,938.65	18,175.74
Bank and cash balance.....	17,720.13	1,190.04	1,374.96	8,497.53	25.00
Securities and investments.....	45,000.00	5,500.00	3,500.00	40,000.00	9,500.00
Accounts Receivable.....	4,723.34	362.18	1,710.25	440.53	12.02
Inventories.....	4,750.76	1,718.38	.....	575.00	.....
Sinking fund on local debentures..	.....	.....	.....	.....	.....
Equity in H-E.P.C. systems.....	72,961.31	6,881.47	19,683.64	189,397.78	24,475.92
Other assets.....	36.50	180.37	.....	.....	.....
Total assets.....	344,083.43	37,416.42	47,139.37	403,849.49	52,188.68
LIABILITIES	.....	.....	.....	.....	.....
Debenture balance.....	45,873.28	5,723.33	.....	.....	.....
Accounts payable.....	17.00	.....	79.43	233.76	382.52
Bank overdraft.....	.....	.....	.....	.....	227.49
Other liabilities.....	4,360.32	315.00	271.37	3,401.03	38.10
Total liabilities.....	50,250.60	6,038.33	350.80	3,634.79	648.11
RESERVES	.....	.....	.....	.....	.....
For equity in H-E.P.C. systems....	72,961.31	6,881.47	19,683.64	189,397.78	24,475.92
For depreciation.....	51,316.37	4,583.90	13,312.12	82,696.46	9,144.51
Other reserves.....	1,500.00	.....	80.00	174.29	25.36
Total reserves.....	125,777.68	11,465.37	33,075.76	272,268.53	33,645.79
SURPLUS	.....	.....	.....	.....	.....
Debentures paid.....	60,120.22	6,471.26	7,000.00	38,183.42	7,700.00
Local sinking fund.....	.....	.....	.....	.....	.....
Operating surplus.....	107,934.93	13,441.46	6,712.81	89,762.75	10,194.78
Total surplus.....	168,055.15	19,912.72	13,712.81	127,946.17	17,894.78
Total liabilities, reserves and surplus.	344,083.43	37,416.42	47,139.37	403,849.49	52,188.68
Percentage of net debt to total assets.	18.5	19.8	1.3	1.7	2.3

“A”—Continued

Hydro Municipalities as at December 31, 1945

Cookstown P.V.	Cottam P.V.	Courtright 357	Creemore 661	Dashwood P.V.	Delaware P.V.	Delhi 2,063
\$ c. 70.00 392.95 9,928.99	\$ c. 475.63 11,359.30	\$ c. 6,772.36	\$ c. 7,741.76	\$ c. 3,899.45	\$ c. 5,440.45	\$ c. 2,472.54 30,546.50
2,892.99 2,741.65 919.69	3,802.11 2,774.12 366.43	1,225.40 1,191.54 470.44	3,676.20 3,475.13 358.56	2,400.81 2,159.96 364.52	1,819.08 1,510.15 205.24	18,105.83 12,893.92 4,541.57
1,513.26	481.18	583.66	43.20	291.87	203.81	3,233.72
						28,518.74
18,459.53	19,258.77	10,243.40	15,294.85	9,116.61	9,178.73	100,312.82
850.94 11,000.00 611.74	3,303.36 382.51	7,500.00 20.57	125.26 7,000.00 81.77	525.11 6,500.00 18.59	559.63 2,500.00 10.11	2,228.24 23,500.00 25.00 2,570.65
7,545.39	6,413.64	7,779.49	16,173.00	11,638.94	4,770.52	11,061.99 1.39
38,467.60	29,358.28	25,543.46	38,674.88	27,799.25	17,018.99	139,700.09
1,323.23 37.41 115.00	713.86 82.88 166.30 180.60	14.13 85.41 5.00	1.56 232.38	221.74 55.36	43.36 10.00	64,723.18 240.49 1,676.79
1,475.64	1,143.64	104.54	233.94	277.10	53.36	66,640.46
7,545.39 10,341.15	6,413.64 5,685.43 37.95	7,779.49 3,369.77 5.24	16,173.00 7,617.95 50.33	11,638.94 4,461.25	4,770.52 1,433.63 27.24	11,061.99 14,455.23 7,097.12
17,886.54	12,137.02	11,154.50	23,841.28	16,100.19	6,231.39	32,614.34
12,176.77 6,928.65	8,286.36 7,791.26	8,138.35 6,146.07	2,823.61 11,776.05	3,178.26 8,243.70	4,000.00 6,734.24	20,276.82 20,168.47
19,105.42	16,077.62	14,284.42	14,599.66	11,421.96	10,734.24	40,445.29
38,467.60	29,358.28	25,543.46	38,674.88	27,799.25	17,018.99	139,700.09
4.8	4.9	0.5	1.0	1.7	0.4	51.8

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Deseronto	Dorchester	Drayton	Dresden	Drumbo
Population.....	1,100	P.V.	518	1,532	P.V.
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	597.41			405.30	
Substation equipment.....	151.18			523.00	
Distribution system—overhead....	11,046.14	9,461.36	10,236.94	21,874.24	4,762.72
Distribution system—underground..					
Line transformers.....	4,174.56	3,237.06	4,750.43	11,108.42	1,801.50
Meters.....	6,038.92	3,049.12	3,754.97	9,284.21	2,156.10
Street light equipment, regular....	432.60	928.18	833.21	1,729.55	284.27
Street light equipment, ornamental..					
Miscellaneous construction expense	508.20	328.41	428.74	2,194.45	235.58
Steam or hydraulic plant.....					
Old plant.....					
Total plant.....	22,959.01	17,004.13	20,004.29	47,119.17	9,240.17
Bank and cash balance.....	1,851.06	61.08	883.53	2,183.84	4,140.50
Securities and investments.....	6,000.00	6,500.00	7,000.00	9,500.00	5,000.00
Accounts Receivable.....	2,259.33	163.08	50.82	913.14	0.31
Inventories.....	573.89	57.98		1,810.56	
Sinking fund on local debentures..					
Equity in H-E.P.C. systems.....	10,642.11	10,512.56	17,575.34	44,036.20	9,237.50
Other assets.....					
Total assets.....	44,285.40	34,298.83	45,513.98	105,562.91	27,618.48
LIABILITIES					
Debenture balance.....			1,270.34		
Accounts payable.....	115.34	323.26	724.47	156.94	87.22
Bank overdraft.....					
Other liabilities.....	328.01	32.00		353.00	
Total liabilities.....	443.35	355.26	1,994.81	509.94	87.22
RESERVES					
For equity in H-E.P.C. systems....	10,642.11	10,512.56	17,575.34	44,036.20	9,237.50
For depreciation.....	5,002.39	4,940.95	11,414.90	7,247.52	6,681.70
Other reserves.....		1,537.56		4,011.46	
Total reserves.....	15,644.50	16,991.07	28,990.24	55,295.18	15,919.20
SURPLUS					
Debentures paid.....	15,000.00	4,300.00	8,229.66	11,423.24	4,500.00
Local sinking fund.....					
Operating surplus.....	13,197.55	12,652.50	6,299.27	38,334.55	7,112.06
Total surplus.....	28,197.55	16,952.50	14,528.93	49,757.79	11,612.06
Total liabilities, reserves and surplus.	44,285.40	34,298.83	45,513.98	105,562.91	27,618.48
Percentage of net debt to total assets.	1.3	1.5	7.1	0.8	0.5

"A"—Continued

Hydro Municipalities as at December 31, 1945

Dublin P.V.	Dundalk 650	Dundas 5,588	Dunnville 4,305	Durham 1,957	Dutton 791	East York Twp. V.A.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
6,023.19	8,776.11	19,401.77 24,228.53 55,893.38	3,495.43 39,710.85 42,391.28	210.28 546.02 24,505.64	75.11 10,170.67	38,170.70 106,472.59 405,425.10
2,502.55	4,345.50	29,796.86	25,522.02	10,673.64	4,348.03	127,693.43
1,279.91	3,676.05	28,181.26	23,400.66	8,306.16	3,675.92	190,312.92
539.86	1,205.41	11,562.33	9,910.87	1,545.06	754.38	36,800.41
787.06	291.49	1,154.52 4,172.17	7,028.43	941.72	288.17	15,111.00
			10,717.62			
11,132.57	18,294.56	174,390.82	162,177.16	46,728.52	19,312.28	919,986.15
1,580.64	1,491.04	8,003.45	35.00	2,804.52	142.29	7,882.18
1,500.00	9,000.00	32,000.00	42,000.00	12,000.00	11,500.00	7,000.00
113.12	76.19	409.44	680.14	435.52	12.61	39,171.37
		286.12	1,313.03	31.73		15,585.95
7,636.35	17,739.77	196,130.13 325.73	89,299.82	41,834.44 8.23	26,978.37	411,797.76
21,962.68	46,601.56	411,545.69	295,505.15	103,842.96	57,945.55	1,401,423.41
			6,779.29			
	70.65	228.62	118.27	259.97		34,582.32
16.00		10,594.77	2,383.26	24.00	187.36	13,008.44
16.00	70.65	10,823.39	2,234.40			
			11,515.22	283.97	187.36	47,590.76
7,636.35	17,739.77	196,130.13	89,299.82	41,834.44	26,978.37	411,797.76
6,804.15	9,481.51	86,737.63	53,426.83	20,435.10	11,728.68	183,091.22
	1,300.00	183.97	16,500.00		33.23	3,199.12
14,440.50	28,521.28	283,051.73	159,226.65	62,269.54	38,740.28	598,088.10
6,200.00	5,955.96	53,000.00	68,720.71	25,800.00	8,407.49	349,763.36
1,306.18	12,053.67	64,670.57	56,042.57	15,489.45	10,610.42	405,981.19
7,506.18	18,009.63	117,670.57	124,763.28	41,289.45	19,017.91	755,744.55
21,962.68	46,601.56	411,545.69	295,505.15	103,842.96	57,945.55	1,401,423.41
0.1	0.2	4.5	5.6	0.4	0.6	4.8

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Elmira	Elmvale	Elmwood	Elora	Embro
Population.....	2,186	P.V.	P.V.	1,167	445
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	7,540.68	106.25		1,524.54	
Substation equipment.....		2,273.07			
Distribution system—overhead....	38,448.79	10,202.26	5,539.47	18,737.42	10,960.81
Distribution system—underground	540.21				
Line transformers.....	25,580.83	4,561.25	2,033.80	8,526.59	6,408.26
Meters.....	16,067.91	4,764.64	1,443.62	7,230.93	2,542.22
Street light equipment, regular....	2,323.27	447.17	700.49	1,513.11	535.73
Street light equipment, ornamental					
Miscellaneous construction expense	803.79	526.13	1,093.62	1,079.33	69.45
Steam or hydraulic plant.....					
Old plant.....	2,168.08				
Total plant.....	93,473.56	22,880.77	10,811.00	38,611.92	20,516.47
Bank and cash balance.....	3,347.36	1,784.21	779.73	362.32	1,492.20
Securities and investments.....	42,500.00	11,200.00	2,600.00	18,500.00	3,000.00
Accounts Receivable.....	119.92	43.69	211.91	17.74	39.39
Inventories.....				243.34	
Sinking fund on local debentures					
Equity in H-E.P.C. systems.....	105,089.34	19,953.56	5,824.87	50,166.36	15,356.54
Other assets.....	15.75				
Total assets.....	244,545.93	55,862.23	20,227.51	107,901.68	40,404.60
LIABILITIES					
Debenture balance.....	3,277.81				
Accounts payable.....	160.85	73.24	41.64	769.20	154.14
Bank overdraft.....				170.91	
Other liabilities.....	802.65		25.00	321.25	40.00
Total liabilities.....	4,241.31	73.24	66.64	1,261.36	194.14
RESERVES					
For equity in H-E.P.C. systems....	105,089.34	19,953.56	5,824.87	50,166.36	15,356.54
For depreciation.....	38,691.88	12,713.97	4,398.90	21,818.92	7,957.02
Other reserves.....	9,000.00	3.68			9.58
Total reserves.....	152,781.22	32,671.21	10,223.77	71,985.28	23,323.14
SURPLUS					
Debentures paid.....	33,890.69	7,000.00	7,200.00	13,000.00	7,500.00
Local sinking fund.....					
Operating surplus.....	53,632.71	16,117.78	2,737.10	21,655.04	9,387.32
Total surplus.....	87,523.40	23,117.78	9,937.10	34,655.04	16,887.32
Total liabilities, reserves and surplus.	244,545.93	55,862.23	20,227.51	107,901.68	40,404.60
Percentage of net debt to total assets.	3.0	0.2	0.5	2.2	0.8

"A"—Continued

Hydro Municipalities as at December 31, 1945

Erieau 228	Erie Beach 23	Essex 1,986	Etobicoke Twp. V.A.	Exeter 1,794	Fergus 2,624
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	.....	609.30	37,100.99	10,132.02	.....
12,697.36	2,605.67	42,048.71	3,001.19	33,039.11	36,614.62
4,530.77	925.32	442.55	369,616.47	.....	.....
4,047.69	1,069.16	18,434.74	129,991.43	15,480.95	25,890.03
435.74	.....	14,171.25	106,020.10	10,800.10	16,400.05
379.90	375.03	1,707.88	25,293.17	4,902.87	6,126.75
.....	.....	7,205.06	2,689.44	.....	.....
.....	.....	765.91	19,510.63	2,074.46	715.30
.....	.....	.....	.....	.....	2,546.59
22,091.46	4,975.18	85,385.40	693,223.42	76,429.51	88,293.34
2,400.29	610.48	2,319.97	1,545.83	1,676.72	1,052.62
1,000.00	1,500.00	34,000.00	52,000.00	18,500.00	33,000.00
43.69	82.23	573.06	25,235.04	1,300.87	196.60
.....	.....	.....	17,485.84	1,840.76	129.44
9,645.81	2,297.14	44,918.71	338,384.68	58,887.04	90,900.54
.....	2.92	.....	75.87	1,000.00	.....
35,181.25	9,467.95	167,197.14	1,127,950.68	159,634.90	213,572.54
.....	271.86	10,762.85	29,590.72	.....	1,790.45
233.63	71.17	189.61	32,072.57	521.01	139.57
35.00	.....	7,802.73	22,674.55	.....	.....
.....	.....	.....	10,686.27	545.00	631.85
268.63	343.03	18,755.19	95,024.11	1,066.01	2,561.87
9,645.81	2,297.14	44,918.71	338,384.68	58,887.04	90,900.54
6,772.44	1,132.43	32,403.96	175,862.65	23,222.92	22,106.75
39.16	.....	7,328.29	30,721.43	8,534.06	10,198.59
16,457.41	3,429.57	84,650.96	544,968.76	90,644.02	123,205.88
6,883.13	3,028.14	11,737.15	236,104.68	20,000.05	40,209.55
11,572.08	2,667.21	52,053.84	251,853.13	47,924.82	47,595.24
18,455.21	5,695.35	63,790.99	487,957.81	67,924.87	87,804.79
35,181.25	9,467.95	167,197.14	1,127,950.68	159,634.90	213,572.54
1.1	4.8	10.0	11.7	1.0	2.1

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Finch	Flesherton	Fonthill	Forest	Forest Hill
Population.....	393	341	1,009	1,573	13,484
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....		408.78		6,576.61	39,501.92
Substation equipment.....					80,767.90
Distribution system—overhead....	8,162.17	6,017.57	14,386.01	24,076.98	205,719.39
Distribution system—underground.					2,169.95
Line transformers.....	2,486.47	3,232.45	6,614.12	14,382.10	116,582.68
Meters.....	2,366.22	2,533.77	6,297.68	12,594.16	71,241.29
Street light equipment, regular....	504.07	817.68	1,927.02	2,663.94	9,779.95
Street light equipment, ornamental					16,795.63
Miscellaneous construction expense	16.24	934.47	402.46	921.74	13,002.91
Steam or hydraulic plant.....					
Old plant.....			3,500.00		
Total plant.....	13,535.17	13,944.72	33,127.29	61,215.53	555,561.62
Bank and cash balance.....	631.06	764.99	2,377.92	3,971.28	487.19
Securities and investments.....	3,500.00	9,000.00	2,000.00	30,510.00	179,000.00
Accounts Receivable.....	44.55	4.49	145.17	676.86	1,979.40
Inventories.....		9.80		1,693.10	10,199.79
Sinking fund on local debentures..					
Equity in H-E.P.C. systems.....	6,315.47	8,709.14	9,585.43	47,590.37	271,996.64
Other assets.....				6.83	
Total assets.....	24,026.25	32,433.14	47,235.81	145,663.97	1,019,224.64
LIABILITIES					
Debenture balance.....	1,128.90		1,586.33		223,072.89
Accounts payable.....	46.03	32.40	63.97	39.77	4,549.96
Bank overdraft.....					
Other liabilities.....	100.95	71.00	374.30	159.46	28,658.58
Total liabilities.....	1,275.88	103.40	2,024.60	199.23	256,281.43
RESERVES					
For equity in H-E.P.C. systems....	6,315.47	8,709.14	9,585.43	47,590.37	271,996.64
For depreciation.....	3,521.61	6,017.92	6,413.59	27,893.37	160,608.57
Other reserves.....	2.91			6,087.59	750.00
Total reserves.....	9,839.99	14,727.06	15,999.02	81,571.33	433,355.21
SURPLUS					
Debentures paid.....	5,871.10	6,700.00	20,913.67	23,357.13	139,708.71
Local sinking fund.....					
Operating surplus.....	7,039.28	10,902.68	8,298.52	40,536.28	189,879.29
Total surplus.....	12,910.38	17,602.68	29,212.19	63,893.41	329,588.00
Total liabilities, reserves and surplus.	24,026.25	32,433.14	47,235.81	145,663.97	1,019,224.64
Percentage of net debt to total assets.	7.2	0.4	5.4	0.2	32.8

“A”—Continued

Hydro Municipalities as at December 31, 1945

Galt	Georgetown	Glencoe	Goderich	Grand Valley	Granton
14,693	2,448	752	4,987	576	P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
203,650.78	5,041.05	3,457.66	13,569.89	36.50	
162,216.49			35,493.52		
298,697.02	39,160.21	23,762.95	73,934.13	12,473.53	4,489.45
4,653.65					
160,379.34	30,035.76	9,120.60	28,544.99	3,819.98	1,515.11
92,148.10	19,049.02	4,935.19	25,039.25	4,046.62	1,837.00
72,587.24	4,598.54	2,118.44	9,159.76	1,051.12	180.78
11,582.55	2,438.65	1,162.70	5,394.82	250.70	113.08
	2,209.80		14,622.15		
1,005,915.17	102,533.03	44,557.54	205,758.51	21,678.45	8,135.42
350.00	3,811.13	717.99	15,097.93	1,648.62	473.87
165,000.00	25,818.62	15,100.00	65,000.00	11,000.00	5,200.00
1,795.84	1,153.90	168.97	746.52	71.52	88.49
26,405.62		460.34	981.09		
766,522.01	145,910.21	27,992.19	170,000.86	16,397.26	10,758.92
740.32	0.36		16.43		28.05
1,966,728.96	279,227.25	88,997.03	457,601.34	50,795.85	24,684.75
			16,515.16		
801.16	356.47	40.55	303.31	94.79	415.14
15,055.93					
5,524.60	2,287.11	346.59	3,456.63		
21,381.69	2,643.58	387.14	20,275.10	94.79	415.14
766,522.01	145,910.21	27,992.19	170,000.86	16,397.26	10,758.92
440,436.83	31,418.52	16,862.46	115,158.24	12,485.09	4,576.45
40,861.60		1,855.34	6,819.63	1,000.00	60.00
1,247,820.44	177,328.73	46,709.99	291,978.73	29,882.35	15,395.37
518,001.95	20,000.00	20,112.88	79,572.89	11,000.00	3,500.00
179,524.88	79,254.94	21,787.02	65,774.62	9,818.71	5,374.24
697,526.83	99,254.94	41,899.90	145,347.51	20,818.71	8,874.24
1,966,728.96	279,227.25	88,997.03	457,601.34	50,795.85	24,684.75
1.8	2.0	0.6	7.0	0.3	3.0

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Gravenhurst	Grimsby	Guelph	Hagersville
Population.....	2,405	1,993	23,225	1,588
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	10,072.27		14,744.58	
Substation equipment.....	10,936.03		167,353.59	864.37
Distribution system—overhead.....	40,833.02	39,502.66	282,729.55	21,667.71
Distribution system—underground.....	1,941.77		28,847.47	
Line transformers.....	16,037.39	23,647.07	123,275.76	12,382.70
Meters.....	15,018.10	18,370.29	121,886.37	11,084.69
Street light equipment, regular.....	4,472.25	2,551.81	45,090.67	1,252.45
Street light equipment, ornamental.....		1,925.00		
Miscellaneous construction expense..	2,017.68	1,327.00	12,599.10	955.37
Steam or hydraulic plant.....				
Old plant.....				
Total plant.....	101,328.51	87,323.83	796,527.09	48,207.29
Bank and cash balance.....	1,769.26	3,393.36	17,915.65	4,598.78
Securities and investments.....	22,000.00		65,000.00	32,000.00
Accounts Receivable.....	208.43	15.33	5,499.03	158.41
Inventories.....	1,321.68	104.75	25,535.22	
Sinking fund on local debentures.....				
Equity in H-E.P.C. systems.....	4,437.96	6,237.04	913,148.29	103,478.47
Other assets.....			1,772.29	38
Total assets.....	171,065.84	97,074.31	1,825,397.57	188,443.33
LIABILITIES				
Debenture balance.....		19,641.79		
Accounts payable.....	721.41	360.48	26,845.67	
Bank overdraft.....				
Other liabilities.....	1,065.00	3,525.27	2,863.32	594.11
Total liabilities.....	1,786.41	23,527.54	29,708.99	594.11
RESERVES				
For equity in H-E.P.C. systems.....	44,437.96	6,237.04	913,148.29	103,478.47
For depreciation.....	38,530.59	7,967.50	235,297.52	20,104.43
Other reserves.....	8,072.91		823.19	6,000.00
Total reserves.....	91,041.46	14,204.54	1,149,269.00	129,582.90
SURPLUS				
Debentures paid.....	63,968.41	65,702.21	145,000.00	8,000.00
Local sinking fund.....				
Operating surplus.....	14,269.56	*6,359.98	501,419.58	50,266.32
Total surplus.....	78,237.97	59,342.23	646,419.58	58,266.32
Total liabilities, reserves and surplus....	171,065.84	97,074.31	1,825,397.57	188,443.33
Percentage of net debt to total assets....	1.4	29.0	3.3	0.7

* Deficit.

"A"—Continued

Hydro Municipalities as at December 31, 1945

Hamilton*	Hanover	Harriston	Harrow	Hastings	Havelock	Hensall
174,222	3,165	1,242	1,122	698	876	601
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
976,475.85	3,894.32	395.25	2,318.16			
2,238,379.75	9,271.19	600.00			572.90	
1,370,518.09	51,702.99	23,179.11	21,077.90	17,575.11	20,064.33	12,645.26
878,969.21						
1,034,413.13	24,072.39	9,730.05	11,607.82	3,530.56	3,588.07	6,811.35
889,454.44	19,439.75	10,037.80	8,807.93	4,132.89	6,228.29	4,295.90
298,403.84	2,350.30	1,332.00	970.46	1,283.74	1,883.33	612.83
42,615.78	5,665.18	736.99	90.79	681.82	4,273.87	534.69
		1,001.43		1,733.13	2,420.45	400.00
7,729,230.29	116,396.12	47,012.63	44,873.06	28,937.25	39,031.24	25,300.03
284,432.85	3,480.79	2,129.22	2,028.73	650.98	62.06	767.24
1,500,000.00	70,186.28	10,400.00	9,200.00	7,000.00	19,000.00	14,000.00
404,351.70	1,209.07	607.76	155.52	113.97	2.14	14.36
213,557.80	192.42	220.89	210.02			
7,787,342.91	111,497.43	46,753.36	37,069.78	5,585.28	16,249.35	22,976.38
97,724.32						
18,016,639.67	302,962.11	107,123.86	93,537.11	42,287.48	74,344.79	63,058.01
426,000.00		1,638.91		8,778.47		652.05
328,436.64	26.13	0.01	404.56	571.09	432.73	688.05
35,200.31	966.81	95.82	310.71	406.47	165.00	30.00
789,636.95	992.94	1,734.74	715.27	9,756.03	597.73	1,370.10
7,787,342.91	111,497.43	46,753.36	37,069.78	5,585.28	16,249.35	22,976.38
1,946,537.27	79,687.51	17,143.31	13,864.39	7,506.88	15,094.53	12,867.77
1,893,489.38	12,500.00		136.30			
11,627,369.56	203,684.94	63,896.67	51,070.47	13,092.16	31,343.88	35,844.15
3,634,275.19	87,500.00	24,179.12	12,000.00	12,221.53	32,900.00	11,347.95
1,965,357.97	10,784.23	17,313.33	29,751.37	7,217.76	9,503.18	14,495.81
5,599,633.16	98,284.23	41,492.45	41,751.37	19,439.29	42,403.18	25,843.76
18,016,639.67	302,962.11	107,123.86	93,537.11	42,287.48	74,344.79	63,058.01
7.7	0.5	2.9	1.3	26.6	1.0	3.4

* Includes 1945 power adjustment & equity in H-E.P.C. systems.

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Hespeler	Highgate	Holstein	Humber- stone 3,287	Huntsville
Population.....	3,021	301	P.V.		2,810
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	4,857.00				353.52
Substation equipment.....	38,946.53				647.30
Distribution system—overhead....	33,197.28	8,348.47	2,419.26	25,529.85	24,657.22
Distribution system—underground.					
Line transformers.....	32,225.97	2,324.00	1,352.91	15,597.89	14,570.37
Meters.....	15,204.26	2,001.63	851.60	12,335.14	14,738.52
Street light equipment, regular....	8,368.76	453.91	170.44	1,005.54	7,661.47
Street light equipment, ornamental					
Miscellaneous construction expense	2,751.74	491.60	188.31	671.36	978.31
Steam or hydraulic plant.....					
Old plant.....					5,156.20
Total plant.....	135,551.54	13,619.61	4,982.52	55,139.78	68,762.91
Bank and cash balance.....	3,689.95	38.04	287.45	1,591.74	3,593.81
Securities and investments.....	30,000.00	6,000.00	4,500.00	30,500.00	7,000.00
Accounts Receivable.....	525.87	14.45		235.14	2,789.51
Inventories.....	560.76				4,299.24
Sinking fund on local debentures					
Equity in H-E.P.C. systems.....	166,386.29	12,962.85	3,591.06	31,014.04	83,391.82
Other assets.....					8.35
Total assets.....	336,714.41	32,634.95	13,361.03	118,480.70	169,845.64
LIABILITIES					
Debenture balance.....	8,685.21				
Accounts payable.....	451.71		0.35	362.31	508.00
Bank overdraft.....					
Other liabilities.....	850.00	80.00		2,113.84	1,079.42
Total liabilities.....	9,986.92	80.00	0.35	2,476.15	1,587.42
RESERVES					
For equity in H-E.P.C. systems....	166,386.29	12,962.85	3,591.06	31,014.04	83,391.82
For depreciation.....	30,994.88	7,376.32	2,306.74	11,112.83	20,398.49
Other reserves.....	154.46			6,000.00	345.22
Total reserves.....	197,535.63	20,339.17	5,897.80	48,126.87	104,135.53
SURPLUS					
Debentures paid.....	68,885.30	5,000.00	2,762.05	32,000.00	21,133.54
Local sinking fund.....					
Operating surplus.....	60,306.56	7,215.78	4,700.83	35,877.68	42,989.15
Total surplus.....	129,191.86	12,215.78	7,462.88	67,877.68	64,122.69
Total liabilities, reserves and surplus.	336,714.41	32,634.95	13,361.03	118,480.70	169,845.64
Percentage of net debt to total assets.	6.0	0.4	0.0	2.5	1.8

"A"—Continued

Hydro Municipalities as at December 31, 1945

Ingersoll	Iroquois	Jarvis	Kemptville	Kincardine	Kingston
5,823	925	557	1,158	2,189	32,463
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
16,291.49	281.20		4,520.39	6,531.80	264,614.53
51,488.29	100.00			2,794.20	280,567.65
59,936.36	9,774.55	10,099.84	21,134.09	47,158.10	249,361.12
					201,800.27
45,942.59	3,474.83	5,281.09	8,105.41	15,158.17	108,881.88
32,294.82	4,709.78	3,183.75	8,860.77	13,314.45	149,920.80
5,302.83	565.84	931.82	1,090.07	6,221.97	80,339.04
4,597.59					
7,731.09	1,230.36	60.00	5,635.88	4,830.09	44,776.53
	575.00				17,665.40
223,585.06	20,711.56	19,556.50	49,346.61	96,008.78	1,397,927.22
7,739.00	2,252.25	1,382.80	2,221.72	50.00	2,745.13
9,477.70	5,000.00	13,500.00	15,000.00	33,000.00	480,000.00
807.54	1,069.17	173.00	1,701.67	260.94	45,178.97
1,551.81	381.22		1,392.71	1,684.84	15,487.01
255,320.80	2,492.58	21,004.46	28,245.94	60,037.18	186,109.61
					2,903.26
498,481.91	31,906.78	55,616.76	97,908.65	191,041.74	2,130,351.20
					10,282.00
9,213.35	0.48	569.55	1,093.61	85.10	241.27
7,264.94	256.34		200.11	416.19	
				469.00	23,665.33
16,478.29	256.82	569.55	1,293.72	970.29	34,188.60
255,320.80	2,492.58	21,004.46	28,245.94	60,037.18	186,109.61
35,250.19	4,255.18	7,326.84	16,311.88	40,855.54	428,150.94
4,390.07	2,000.00			7,564.07	255,501.92
294,961.06	8,747.76	28,331.30	44,557.82	108,456.79	869,762.47
79,800.00		10,500.00	25,000.00	64,200.00	301,618.00
107,242.56	22,902.20	16,215.91	27,057.11	17,414.66	924,782.13
187,042.56	22,902.20	26,715.91	52,057.11	81,614.66	1,226,400.13
498,481.91	31,906.78	55,616.76	97,908.65	191,041.74	2,130,351.20
5.0	0.9	1.1	1.9	0.7	1.8

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Kingsville	Kirkfield	Kitchener	Lakefield
Population.....	2,335	P.V.	36,165	1,327
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	8,600.27		279,953.06	3,137.97
Substation equipment.....			425,926.92	
Distribution system—overhead.....	35,714.45	5,179.43	454,511.09	25,634.44
Distribution system—underground.....			81,173.44	
Line transformers.....	17,176.18	757.90	273,600.36	7,595.56
Meters.....	17,101.71	822.47	265,785.11	8,475.73
Street light equipment, regular.....	1,470.29	379.00	80,496.18	1,958.01
Street light equipment, ornamental.....	19,200.00		126,922.86	
Miscellaneous construction expense.....	949.86	234.11	24,861.21	3,717.93
Steam or hydraulic plant.....				
Old plant.....			52,363.91	3,445.25
Total plant.....	100,212.76	7,372.91	2,065,594.14	53,964.89
Bank and cash balance.....	2,023.24	716.16	16,722.52	1,871.60
Securities and investments.....	32,500.00	3,000.00	175,000.00	21,000.00
Accounts Receivable.....	194.93	18.40	81,353.33	187.54
Inventories.....			44,402.42	
Sinking fund on local debentures.....				
Equity in H-E.P.C. systems.....	57,267.04	4,298.33	1,827,759.13	18,526.31
Other assets.....			225.13	
Total assets.....	192,197.97	15,405.80	4,211,056.67	95,550.34
LIABILITIES				
Debenture balance.....	16,553.58		120,800.00	10,660.81
Accounts payable.....	169.84	28.72	76,252.69	55.49
Bank overdraft.....				
Other liabilities.....	23,269.77		129,605.42	609.53
Total liabilities.....	39,993.19	28.72	326,658.11	11,325.83
RESERVES				
For equity in H-E.P.C. systems.....	57,267.04	4,298.33	1,827,759.13	18,526.31
For depreciation.....	36,846.63	4,721.25	574,433.23	18,827.93
Other reserves.....	5,388.66	200.00	7,166.74	
Total reserves.....	99,502.33	9,219.58	2,409,359.10	37,354.24
SURPLUS				
Debentures paid.....	16,946.42	6,000.00	616,350.00	22,839.19
Local sinking fund.....				
Operating surplus.....	35,756.03	157.50	858,689.46	24,031.08
Total surplus.....	52,702.45	6,157.50	1,475,039.46	46,870.27
Total liabilities, reserves and surplus.....	192,197.97	15,405.80	4,211,056.67	95,550.34
Percentage of net debt to total assets.....	17.1	0.3	8.9	14.7

“A”—Continued

Hydro Municipalities as at December 31, 1945

Lambeth P.V.	Lanark 670	Lancaster 518	La Salle 1,020	Leamington 5,456	Lindsay 7,680	Listowel 3,209
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	.....	.....	1,210.68	20,612.59	10,777.68	1,459.49
.....	.....	.....	.....	7,101.97	3,176.56	.....
9,680.25	10,663.83	8,789.65	24,174.92	62,866.49	109,747.95	51,035.08
.....	.....	.....	.....	17,209.04	.....	5,522.87
2,990.87	4,455.99	1,922.25	7,680.97	29,693.87	39,316.59	25,522.31
2,864.51	2,773.92	2,076.98	5,836.94	32,901.81	37,649.78	19,571.26
1,053.80	782.64	650.65	1,054.22	1,814.66	10,869.46	3,605.91
.....	.....	.....	.....	14,478.49	.....	1,539.79
315.71	.....	1,068.55	1,554.77	1,296.31	4,222.95	1,607.43
.....
16,905.14	18,676.38	14,508.08	41,512.50	187,975.23	215,760.97	109,864.14
303.19	319.07	1,417.65	666.81	100.00	7,930.62	432.44
4,000.00	.....	1,500.00	6,000.00	68,500.00	90,317.22	23,000.00
4.49	.....	38.93	424.06	716.22	408.77	706.26
.....	.....	.....	11.99	3,828.93	265.47	106.66
13,363.40	8,402.98	8,050.22	19,846.16	126,612.32	145,145.09	110,176.71
.....	.....	.....	.....	.....	.....	3.33
34,576.22	27,398.43	25,514.88	68,461.52	387,732.70	459,828.14	244,289.54
.....	.....	.....	.....	.....	28,407.69	.....
82.53	.....	26.94	225.87	363.59	.....	42.47
.....	.....	.....	.....	1,292.19	.....	586.00
185.00	140.00	162.53	975.58	17,736.34	3,509.55	1,972.23
267.53	140.00	189.47	1,201.45	19,392.12	31,917.24	2,600.70
13,363.40	8,402.98	8,050.22	19,846.16	126,612.32	145,145.09	110,176.71
7,229.31	1,204.44	3,776.68	15,913.73	54,226.34	63,820.48	60,192.49
1,218.59	.....	.....	182.17	21,872.05	.....	2,500.00
21,811.30	9,607.42	11,826.90	35,942.06	202,710.71	208,965.57	172,869.20
4,000.00	7,316.57	9,970.42	15,500.00	48,000.00	101,592.31	43,189.89
8,497.39	10,334.44	3,528.09	15,818.01	117,629.87	117,353.02	25,629.75
12,497.39	17,651.01	13,498.51	31,318.01	165,629.87	218,945.33	68,819.64
34,576.22	27,398.43	25,514.88	68,461.52	387,732.70	459,828.14	244,289.54
1.3	0.7	1.1	2.5	2.0	10.1	0.8

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	London	London Twp. V.A.	Long Branch	Lucan	Lucknow
Population.....	81,158		5,253	583	932
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	456,380.39			375.45	
Substation equipment.....	1,019,724.35				
Distribution system—overhead....	841,358.63	24,867.44	63,631.35	11,866.24	21,600.71
Distribution system—underground..	421,731.09				
Line transformers.....	452,140.77	9,665.55	19,511.65	4,626.28	12,475.71
Meters.....	414,032.15	6,991.42	24,679.56	4,423.46	6,176.82
Street light equipment, regular....	74,051.20	1,884.85	6,225.76	4,549.30	1,509.55
Street light equipment, ornamental	92,286.12				
Miscellaneous construction expense	144,546.69	1,663.09	1,257.66	565.83	2,212.90
Steam or hydraulic plant.....					
Old plant.....		1,733.80			
Total plant.....	3,916,251.39	46,806.15	115,305.98	26,406.56	43,975.69
Bank and cash balance.....	1,000.00	1,749.17	309.83	1,054.14	2,110.23
Securities and investments.....	1,256,500.00	6,000.00	40,000.00	10,500.00	10,000.00
Accounts Receivable.....	189,293.56	516.18	14,645.61	36.37	344.56
Inventories.....	78,036.55				
Sinking fund on local debentures..	128,831.44				
Equity in H-E.P.C. systems.....	3,342,299.85	30,597.92	43,158.15	24,447.51	28,333.92
Other assets.....	1,403.44				
Total assets.....	8,913,616.23	85,669.42	213,419.57	62,444.58	84,764.40
LIABILITIES					
Debenture balance.....	7,526.44	820.52	1,278.18		
Accounts payable.....	19,822.17	720.38	4,635.50	153.66	79.06
Bank overdraft.....	116,263.19				
Other liabilities.....	100,670.29	612.24	2,309.83	242.00	5.00
Total liabilities.....	244,282.09	2,153.14	8,223.51	395.66	84.06
RESERVES					
For equity in H-E.P.C. systems....	3,342,299.85	30,597.92	43,158.15	24,447.51	28,333.92
For depreciation.....	1,807,768.14	14,733.42	32,278.43	11,491.18	7,176.43
Other reserves.....	527,541.99	3.82	16,210.08		6,750.00
Total reserves.....	5,677,609.98	45,335.16	91,646.66	35,938.69	42,260.35
SURPLUS					
Debentures paid.....	1,574,373.56	18,179.48	39,026.42	11,213.62	19,713.16
Local sinking fund.....	128,831.44				
Operating surplus.....	1,288,519.16	20,001.64	74,522.98	14,896.61	22,706.83
Total surplus.....	2,991,724.16	38,181.12	113,549.40	26,110.23	42,419.99
Total liabilities, reserves and surplus.	8,913,616.23	85,669.42	213,419.57	62,444.58	84,764.40
Percentage of net debt to total assets.	2.8	3.9	4.8	1.0	0.1

“A”—Continued

Hydro Municipalities as at December 31, 1945

Lynden P.V.	Madoc 1,094	Markdale 700	Markham 1,210	Marmora 938	Martintown P.V.	Maxville 801
\$ c. 241.18	\$ c. 100.00	\$ c. 780.80	\$ c.	\$ c.	\$ c. 126.15	\$ c. 407.79
4,869.69	12,206.87	11,485.61	20,327.15	14,161.87	2,932.57	12,012.76
3,136.23	3,761.56	6,472.80	10,303.45	3,808.11	759.39	2,391.79
2,385.92	5,732.26	5,164.75	8,558.50	4,094.77	1,166.25	3,394.83
597.61	1,577.14	1,390.15	833.91	1,193.23	354.94	1,950.24
203.57	14.75	593.31	1,510.50	2,268.82	690.21	2,406.35
		2,080.65		573.62		
11,434.20	23,392.58	27,968.07	41,533.51	26,100.42	6,029.51	22,563.76
386.50	4,085.83	868.60	997.59	2,208.50	927.66	388.39
5,000.00	12,000.00	12,155.13	16,000.00	8,000.00	3,500.00	9,100.00
35.96	340.38	160.56	212.18	73.11	184.26	65.62
				462.68		
17,170.03	11,467.51	14,258.16	27,294.20	8,062.40	2,858.02	12,832.45
34,026.69	51,286.30	55,410.52	86,037.48	44,907.11	13,499.45	44,950.22
	65.11	400.29			19.60	
34.00	520.00	182.00	280.00	295.00	5.00	144.66
34.00	585.11	582.29	280.00	295.00	24.60	144.66
17,170.03	11,467.51	14,258.16	27,294.20	8,062.40	2,858.02	12,832.45
4,908.07	3,289.83	11,445.28	9,992.70	7,449.49	2,728.66	7,925.09
		1,000.00	3,032.39		81.02	366.36
22,078.10	14,757.34	26,703.44	40,319.29	15,511.89	5,667.70	21,123.90
4,495.00	14,000.00	9,000.00	11,373.63	17,666.11	6,000.00	16,000.00
7,419.59	21,943.85	19,124.79	34,064.56	11,434.11	1,807.15	7,681.66
11,914.59	35,943.85	28,124.79	45,438.19	29,100.22	7,807.15	23,681.66
34,026.69	51,286.30	55,410.52	86,037.48	44,907.11	13,499.45	44,950.22
0.2	1.5	1.4	0.5	0.8	0.2	0.4

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Meaford	Merlin	Merritton	Midland	Mildmay
Population.....	2,671	P.V.	3,450	6,636	725
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	1,144.18	.....	6,764.41	19,983.57	.....
Substation equipment.....	3,849.47	.....	96,695.94	85,315.20	.....
Distribution system—overhead....	34,410.78	9,674.65	43,954.64	100,249.57	6,547.28
Distribution system—underground.	.....	.....	.....	.....	.....
Line transformers.....	10,044.37	4,065.36	15,667.90	31,142.11	2,614.95
Meters.....	11,642.93	3,010.03	18,964.20	43,700.58	3,392.11
Street light equipment, regular....	3,778.42	570.46	5,170.02	19,322.71	583.24
Street light equipment, ornamental	.....	.....	.....	.....	.....
Miscellaneous construction expense	3,038.98	468.84	1,633.88	751.09	1,064.13
Steam or hydraulic plant.....	.....	.....	.....	.....	.....
Old plant.....	.....	.....	.....	.....	849.00
Total plant.....	67,909.13	17,789.34	188,850.99	300,464.83	15,050.71
Bank and cash balance.....	1,079.30	1,400.13	9,242.96	27,828.66	.....
Securities and investments.....	28,000.00	15,200.00	77,000.00	67,500.00	10,000.00
Accounts Receivable.....	193.28	19.41	834.87	6,839.80	.....
Inventories.....	18.65	40.27	852.79	5,007.53	.....
Sinking fund on local debentures.	.....	.....	.....	.....	.....
Equity in H-E.P.C. systems.....	43,533.88	15,303.64	268,650.79	301,488.60	5,446.62
Other assets.....	9.97	.....	55.60	356.27	.....
Total assets.....	140,744.21	49,752.79	545,488.00	709,485.69	30,497.33
LIABILITIES	.....	.....	.....	.....	.....
Debenture balance.....	.....	.....	.....	.....	5,498.78
Accounts payable.....	189.28	138.50	129.37	695.86	63.42
Bank overdraft.....	.....	.....	.....	.....	5.27
Other liabilities.....	1,070.26	95.00	613.49	1,462.12	20.00
Total liabilities.....	1,259.54	233.50	742.86	2,157.98	5,587.47
RESERVES	.....	.....	.....	.....	.....
For equity in H-E.P.C. systems....	43,533.88	15,303.64	268,650.79	301,488.60	5,446.62
For depreciation.....	22,465.74	6,346.64	43,885.38	231,909.38	3,719.00
Other reserves.....	46.65	23.40	27,000.00	1,317.99	.....
Total reserves.....	66,046.27	21,673.68	339,536.17	534,715.97	9,165.62
SURPLUS	.....	.....	.....	.....	.....
Debentures paid.....	49,360.20	13,122.36	32,186.21	111,944.99	6,804.72
Local sinking fund.....	.....	.....	.....	.....	.....
Operating surplus.....	24,078.20	14,723.25	173,022.76	60,666.75	8,939.52
Total surplus.....	73,438.40	27,845.61	205,208.97	172,611.74	15,744.24
Total liabilities, reserves and surplus.	140,744.21	49,752.79	545,488.00	709,485.69	30,497.33
Percentage of net debt to total assets.	1.3	0.7	0.3	0.5	22.3

“A”—Continued

Hydro Municipalities as at December 31, 1945

Millbrook 673	Milton 1,955	Milverton 970	Mimico 8,400	Mitchell 1,531	Moorefield P.V.	Morrisburg 1,436
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	13,864.88	761.88	20,455.40	19,125.54	.....	4,980.00
6,746.49	16,456.16	.....	43,269.83	16,526.28	.....	4,457.21
.....	24,574.87	13,046.95	87,572.67	33,297.62	3,383.69	12,047.83
1,772.56	17,264.05	11,607.59	47,317.25	15,686.77	2,873.96	6,198.15
2,212.13	16,405.19	5,907.32	38,267.40	14,686.98	1,759.63	8,049.21
595.65	5,478.13	848.75	10,626.83	7,377.93	295.88	795.00
.....
79.92	3,278.34	588.05	6,244.51	2,532.87	351.20	659.23
.....
.....	.....	.....	.....	.....	.....	3,364.41
11,406.75	97,321.62	32,760.54	253,753.89	109,233.99	8,664.36	40,551.04
1,884.31	2,420.21	1,474.45	3,719.88	4,599.47	892.16	924.74
4,000.00	38,000.00	6,500.00	55,000.00	27,400.00	1,500.00	8,000.00
18.65	860.87	278.94	1,292.86	2,764.77	32.41	66.29
.....	4,053.79	.....	.....	5,066.09	.....	.....
1,600.80	135,629.06	55,698.34	194,275.33	61,164.37	8,280.72	3,920.17
.....	.....	4.51	177.18	3.93	.....	.....
18,910.51	278,285.55	96,716.78	508,219.14	210,232.62	19,369.65	53,462.24
.....
227.55	182.58	148.34	136.60	110.60	95.31	3,148.28
.....	.....	.....	.....	.....	.....	360.09
202.67	691.15	.....	5,670.00	327.00	3.00	1,568.31
430.22	873.73	148.34	5,806.60	437.60	98.31	5,076.68
.....
1,600.80	135,629.06	55,698.34	194,275.33	61,164.37	8,280.72	3,920.17
1,242.21	32,309.85	10,163.90	97,174.60	52,113.00	3,785.73	3,630.32
.....	10,177.02	.....	18,135.87	1,267.05	.....	6,927.13
2,843.01	178,115.93	65,862.24	309,585.80	114,544.42	12,066.45	14,477.62
.....
9,000.00	33,046.41	9,500.00	127,000.00	22,295.22	4,500.00	31,425.00
6,637.28	66,249.48	21,206.20	65,826.74	72,955.38	2,704.89	2,482.94
15,637.28	99,295.89	30,706.20	192,826.74	95,250.60	7,204.89	33,907.94
18,910.51	278,285.55	96,716.78	508,219.14	210,232.62	19,369.65	53,462.24
2.5	0.6	0.4	1.8	0.2	0.9	10.2

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Mount Brydges P.V.	Mount Forest 1,753	Napanee 3,298	Neustadt 418	Newbury 233
Population.....					
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....		3,726.00	16,354.36		
Substation equipment.....		686.75	2,358.27		
Distribution system—overhead....	8,117.78	23,437.06	49,838.80	10,767.70	6,945.58
Distribution system—underground.					
Line transformers.....	1,845.43	8,601.56	12,952.66	4,350.29	1,571.26
Meters.....	2,994.35	9,391.42	20,460.63	2,773.65	1,435.35
Street light equipment, regular....	1,385.36	2,397.89	4,732.62	496.41	881.47
Street light equipment, ornamental					
Miscellaneous construction expense	105.90	1,893.72	6,337.40	1,495.88	515.77
Steam or hydraulic plant.....					
Old plant.....		3,810.95			
Total plant.....	14,448.82	53,945.35	113,034.74	19,883.93	11,349.43
Bank and cash balance.....	959.60	2,365.49	100.00	984.12	808.90
Securities and investments.....	14,000.00	13,000.00	12,800.00	13,700.00	6,500.00
Accounts Receivable.....	131.92	268.90	15,634.90	62.27	13.05
Inventories.....		563.46	7,494.12		
Sinking fund on local debentures.					
Equity in H-E.P.C. systems.....	10,385.13	45,631.10	60,030.15	8,264.27	5,865.18
Other assets.....			4.30		
Total assets.....	39,925.47	115,774.30	209,098.21	42,894.59	24,536.56
LIABILITIES					
Debenture balance.....		586.98			
Accounts payable.....	779.93			254.50	
Bank overdraft.....			3,873.26		
Other liabilities.....	175.66	375.00	1,130.94	153.85	35.00
Total liabilities.....	955.59	961.98	5,004.20	408.35	35.00
RESERVES					
For equity in H-E.P.C. systems....	10,385.13	45,631.10	60,030.15	8,264.27	5,865.18
For depreciation.....	6,296.00	28,603.81	22,191.68	12,259.74	6,152.91
Other reserves.....	97.38	1,500.00	2,500.00		
Total reserves.....	16,778.51	75,734.91	84,721.83	20,524.01	12,018.09
SURPLUS					
Debentures paid.....	4,220.00	30,371.62	70,000.00	17,000.00	9,754.39
Local sinking fund.....					
Operating surplus.....	17,971.37	8,705.79	49,372.18	4,962.23	2,729.08
Total surplus.....	22,191.37	39,077.41	119,372.18	21,962.23	12,483.47
Total liabilities, reserves and surplus.	39,925.47	115,774.30	209,098.21	42,894.59	24,536.56
Percentage of net debt to total assets.	3.2	1.3	3.4	0.9	0.2

"A"—Continued

Hydro Municipalities as at December 31, 1945

Newcastle 690	New Hamburg 1,454	Newmarket 3,956	New Toronto 8,374	Niagara Falls 19,138	Niagara-on- the-Lake 1,802
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
107.37	4,226.21	4,000.00	45,514.80	133,097.32	2,320.00
15,297.34	1,217.05	5,000.00	283,208.06	24,212.17	24,212.17
4,673.83	25,130.17	51,073.07	103,302.00	212,675.82	40,913.26
4,111.36	11,237.41	26,906.01	17,198.72	197,736.75	23,664.93
976.31	11,233.67	21,131.75	51,782.67	122,961.26	14,669.42
435.00	2,274.20	5,790.00	43,239.26	118,502.09	4,603.40
			14,860.87		
			6,665.89	20,715.75	3,895.27
	234.21	2,025.00			
	5,242.56				
25,601.21	60,795.48	115,925.83	282,564.21	1,088,897.05	114,278.45
349.12	50.00	1,711.52	14,162.77	38,951.90	2,333.21
9,000.00	20,100.00		134,000.00	230,000.00	
31.02	370.23	1,339.34	869.17	1,245.08	1,080.63
145.13	750.78		3,294.91	10,864.44	5,514.19
3,767.10	65,825.24		654,955.44	757,838.84	44,458.78
	423.94	201.12		835.62	.41
38,893.58	148,315.67	119,177.81	1,089,846.50	2,128,632.93	167,665.67
		5,000.00		31,405.13	16,666.09
0.74	66.75	5,008.98	0.50	1,914.86	1,270.40
	939.27				
	206.00		6,470.28	18,977.09	444.30
0.74	1,212.02	10,008.98	6,470.78	52,297.08	18,380.79
3,767.10	65,825.24		654,955.44	757,838.84	44,458.78
11,833.97	21,584.67	40,944.49	94,148.51	361,899.76	22,582.60
	1,633.83		33,376.15	15,638.35	691.40
15,601.07	92,043.74	40,944.49	782,480.10	1,135,376.95	67,732.78
14,000.00	17,729.08		8,000.00	658,837.87	31,835.33
9,291.77	37,330.83	68,224.34	292,895.62	282,121.03	49,716.77
23,291.77	55,059.91	68,224.34	300,895.62	940,958.90	81,552.10
38,893.58	148,315.67	119,177.81	1,089,846.50	2,128,632.93	167,665.67
0.0	1.4	8.4	1.5	3.8	15.0

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	North York Twp. V.A.	Norwich	Norwood	Oil Springs 426	Omemees 598
Population.....		1,199	694		
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	35,906.55	4,660.42		6,299.16	
Substation equipment.....			457.53	2,461.78	360.32
Distribution system—overhead.....	518,238.24	11,926.99	24,495.11	15,252.52	14,116.62
Distribution system—underground.....					
Line transformers.....	169,170.92	8,481.83	4,966.26	6,724.50	7,324.64
Meters.....	119,888.85	8,467.71	6,315.82	4,336.41	3,825.05
Street light equipment, regular.....	156.00	4,685.64	1,886.92	308.24	805.48
Street light equipment, ornamental.....	29,900.05				
Miscellaneous construction expense.....	26,647.53	639.91	3,615.22	1,473.81	1,405.00
Steam or hydraulic plant.....					
Old plant.....			2,447.51		
Total plant.....	899,908.14	38,862.50	44,184.37	36,856.42	27,837.11
Bank and cash balance.....	21,535.40	2,592.87	2,148.82	1,225.94	1,463.93
Securities and investments.....	205,000.00	14,000.00	20,500.00	8,500.00	8,000.00
Accounts Receivable.....	14,100.03	1,458.05	303.55	85.60	37.78
Inventories.....	23,729.46	2,321.62		143.94	
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	268,665.03	48,642.30	8,381.91	32,156.33	2,481.71
Other assets.....	82,627.70			12.00	
Total assets.....	1,518,565.76	107,877.34	75,518.65	78,980.23	39,820.53
LIABILITIES					
Debenture balance.....	113,872.21		10,139.27		
Accounts payable.....	87,993.78	170.08	1,146.01	120.47	22.05
Bank overdraft.....					
Other liabilities.....	41,550.56	355.32	603.98	27.56	150.32
Total liabilities.....	243,416.55	525.40	11,889.26	148.03	172.37
RESERVES					
For equity in H-E.P.C. systems.....	268,665.03	48,642.30	8,381.91	32,156.33	2,481.71
For depreciation.....	222,089.15	12,289.22	18,674.67	13,977.71	13,952.12
Other reserves.....	1,659.36	543.91		1,285.23	
Total reserves.....	492,413.54	61,475.43	27,056.58	47,419.27	16,433.83
SURPLUS					
Debentures paid.....	414,149.66	13,756.00	26,960.73	16,721.31	12,000.00
Local sinking fund.....					
Operating surplus.....	368,586.01	32,120.51	9,612.08	14,691.62	11,214.33
Total surplus.....	782,735.67	45,876.51	36,572.81	31,412.93	23,214.33
Total liabilities, reserves and surplus.....	1,518,565.76	107,877.34	75,518.65	78,980.23	39,820.53
Percentage of net debt to total assets.....	17.5	0.9	17.4	0.3	0.5

"A"—Continued

Hydro Municipalities as at December 31, 1945

Orangeville	Orono	Oshawa	Ottawa	Otterville	Owen Sound
2,559	P.V.	26,824	163,829	P.V.	13,402
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,585.07		72,407.61	489,838.82		28,270.25
1,169.00		67,336.66	1,045,499.00		17,962.64
38,001.93	5,801.51	308,052.95	937,538.47	8,912.95	130,846.72
			267,966.63		
13,120.87	1,462.79	90,870.47	423,421.94	5,193.47	75,679.06
15,431.35	2,166.82	141,466.96	324,853.06	3,378.61	73,583.89
7,532.55	1,070.35	19,975.92	125,029.06	1,722.75	31,045.57
6,027.82		19,308.03	36,291.08	629.69	1,039.94
		6,431.65			26,982.00
83,868.59	10,501.47	725,850.25	3,650,438.06	19,837.47	385,410.07
1,600.78	1,201.74	7,852.52	331,377.13	119.42	22,824.69
23,000.00	5,000.00	285,000.00	1,140,000.00	7,500.00	32,500.00
466.69	32.47	75,796.06	116,623.50	923.09	5,565.31
186.38		33,312.76	38,331.88		9,177.97
			246,700.77		
62,204.95	1,781.27	776,725.94	317,653.52	12,002.90	305,361.90
	215.41	69.62			338.30
171,327.39	18,732.36	1,904,607.15	5,841,124.86	40,382.88	761,178.24
		18,000.00	109,485.25		
139.54	311.25	58,283.56	75,617.58	860.10	19,122.60
153.00		26,831.53		96.38	7,851.79
292.54	311.25	103,115.09	185,102.83	956.48	26,974.39
62,204.95	1,781.27	776,725.94	317,653.52	12,002.90	305,361.90
38,836.87	751.17	133,577.91	1,901,006.51	8,514.51	112,194.47
	1,000.00	75,800.87	615,092.33		10,335.90
101,041.82	3,532.44	986,104.72	2,833,752.36	20,517.41	427,892.27
35,900.00	8,000.00	292,000.00	870,514.75	4,500.00	141,000.00
			246,700.77		
34,093.03	6,888.67	523,387.34	1,705,054.15	14,408.99	165,311.58
69,993.03	14,888.67	815,387.34	2,822,269.67	18,908.99	306,311.58
171,327.39	18,732.36	1,904,607.15	5,841,124.86	40,382.88	761,178.24
0.3	1.9	9.1	1.4	3.4	5.9

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Paisley	Palmerston	Paris	Parkhill	Penetanguishene
Population.....	577	1,396	4,524	801	4,018
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....			12,570.15		2,288.05
Substation equipment.....	1,923.46	1,346.28	49,995.08		7,161.13
Distribution system—overhead....	12,627.48	33,515.83	57,962.00	18,610.95	53,409.56
Distribution system—underground..					
Line transformers.....	2,940.75	11,406.81	31,080.27	8,065.41	22,228.35
Meters.....	3,521.48	9,102.09	23,137.77	5,299.27	18,815.13
Street light equipment, regular....	1,045.51	6,855.26	14,112.53	1,188.53	3,942.13
Street light equipment, ornamental					
Miscellaneous construction expense	803.73	907.85	1,071.93	1,566.99	831.52
Steam or hydraulic plant.....					
Old plant.....					
Total plant.....	22,862.41	63,134.12	189,929.73	34,731.15	108,675.87
Bank and cash balance.....	2,139.62	1,544.80	25.00	1,066.30	1,073.41
Securities and investments.....	7,500.00	16,250.00	45,000.00	10,000.00	38,000.00
Accounts Receivable.....	57.41	448.14	347.08	282.96	1,187.80
Inventories.....		2,587.36			140.48
Sinking fund on local debentures..					
Equity in H-E.P.C. systems.....	14,975.09	58,828.37	152,550.33	26,052.24	86,008.49
Other assets.....		18.40	316.78	0.45	
Total assets.....	47,534.53	142,811.19	388,168.92	72,133.10	235,086.05
LIABILITIES					
Debenture balance.....					
Accounts payable.....	89.32	3,442.18	227.12	3.00	198.24
Bank overdraft.....			168.35		
Other liabilities.....	51.03	260.42		139.07	957.00
Total liabilities.....	140.35	3,702.60	395.47	142.07	1,155.24
RESERVES					
For equity in H-E.P.C. systems....	14,975.09	58,828.37	152,550.33	26,052.24	86,008.49
For depreciation.....	7,807.85	18,896.14	95,750.92	12,444.73	56,268.84
Other reserves.....	1,000.00	401.89	120.22	2,700.00	16,884.90
Total reserves.....	23,782.94	78,126.40	248,421.47	41,196.97	159,162.23
SURPLUS					
Debentures paid.....	16,000.00	27,000.00	92,000.00	14,630.02	36,982.95
Local sinking fund.....					
Operating surplus.....	7,611.24	33,982.19	47,351.98	16,164.04	37,785.63
Total surplus.....	23,611.24	60,982.19	139,351.98	30,794.06	74,768.58
Total liabilities, reserves and surplus.	47,534.53	142,811.19	388,168.92	72,133.10	235,086.05
Percentage of net debt to total assets.	0.4	4.4	0.2	0.3	0.8

"A"—Continued

Hydro Municipalities as at December 31, 1945

Perth 4,230	Peter- borough 27,871	Petrolia 2,684	Picton 3,690	Plattsville P.V.	Point Edward 1,221
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
5,109.34	82,688.86	12,823.65	10,901.23		
6,961.44	124,548.59	5,956.75	2,004.66		
50,031.23	386,316.98	51,112.86	42,970.74	4,932.39	23,073.65
27,875.28	170,461.73	37,201.26	17,754.02	2,432.95	7,918.41
24,365.27	151,383.29	18,346.25	22,922.57	2,745.44	7,408.39
5,046.05	64,279.23	6,822.58	10,579.80	158.29	3,693.72
5,519.46	5,452.50	5,639.49	3,977.51	580.47	1,337.32
23,354.70					
148,262.77	985,131.18	137,902.84	111,110.53	10,849.54	43,431.49
7,738.65	150.00	13,967.21	795.81	1,032.03	1,379.61
82,500.00	315,000.00	15,000.00	51,500.00	9,500.00	21,000.00
3,459.49	43,641.77	2,109.13	1,875.21	65.42	1,516.92
14,330.12	30,869.38	4,477.02	7,316.23		829.65
96,302.12	131,547.78				
	457,121.37	135,563.75	75,282.26	12,600.11	89,515.48
	73.20	133.56			
352,593.15	1,963,534.68	309,153.51	247,880.04	34,047.10	157,673.15
22,996.77	171,300.00				
9.00	34,878.08	115.40		14.16	390.14
	5,818.65				
3,112.42	515.00	1,267.56	4,391.37		397.09
26,118.19	212,511.73	1,382.96	4,391.37	14.16	787.23
96,302.12	457,121.37	135,563.75	75,282.26	12,600.11	89,515.48
77,247.98	286,031.16	50,924.63	29,465.48	4,999.39	20,524.06
4,284.63	1,206.74	167.51	14,468.91		4,272.20
177,834.73	744,359.27	186,655.89	119,216.65	17,599.50	114,311.74
85,403.23	329,310.67	50,000.00	5,730.32	5,237.00	17,000.00
	131,547.78				
63,237.00	545,805.23	71,114.66	118,541.70	11,196.44	25,574.18
148,640.23	1,006,663.68	121,114.66	124,272.02	16,433.44	42,574.18
352,593.15	1,963,534.68	309,153.51	247,880.04	34,047.10	157,673.15
10.1	15.5	0.8	2.5	0.1	1.2

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Port Colborne 7,187	Port Credit 2,249	Port Dalhousie 1,747	Port Dover 2,001	Port Elgin 1,276
Population.....					
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	30,022.28	675.00		248.75	111.25
Substation equipment.....					
Distribution system—overhead.....	88,394.80	40,654.42	23,494.98	39,404.42	27,870.57
Distribution system—underground.....					
Line transformers.....	32,941.91	17,408.38	15,420.89	16,313.32	7,955.37
Meters.....	30,535.14	15,250.40	13,459.95	13,636.23	8,966.31
Street light equipment, regular.....	5,300.06	5,180.06	1,083.91	2,767.73	2,270.59
Street light equipment, ornamental.....	16,611.59				
Miscellaneous construction expense.....	10,857.16	1,094.19	2,522.70	1,825.92	220.30
Steam or hydraulic plant.....					
Old plant.....	9,929.60		6,018.38		4,213.00
Total plant.....	224,592.54	80,262.45	62,000.81	74,196.37	51,607.39
Bank and cash balance.....	1,941.04	3,501.53	5,459.74	216.77	5,181.68
Securities and investments.....	115,000.00	10,000.00	15,000.00	10,000.00	11,500.00
Accounts Receivable.....	920.21	689.01	931.94	1,634.90	64.50
Inventories.....	3,544.66		87.25	74.28	
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	136,834.17	57,234.26	52,002.03	36,732.87	19,611.03
Other assets.....	69.45		41.85	26.24	
Total assets.....	482,902.07	151,687.25	135,523.62	122,881.43	87,964.60
LIABILITIES					
Debenture balance.....	10,213.84	1,311.12			14,590.82
Accounts payable.....	207.81	293.15	3,184.25	135.00	3,370.20
Bank overdraft.....					
Other liabilities.....	20,466.45	1,154.07	1,286.17	709.00	
Total liabilities.....	30,888.10	2,758.34	4,470.42	844.00	17,961.02
RESERVES					
For equity in H-E.P.C. systems.....	136,834.17	57,234.26	52,002.03	36,732.87	19,611.03
For depreciation.....	67,873.32	24,235.07	12,382.25	20,640.00	13,651.43
Other reserves.....	37,584.98	7,889.44	214.16		
Total reserves.....	242,292.47	89,358.77	64,598.44	57,372.87	33,262.46
SURPLUS					
Debentures paid.....	135,786.16	13,188.88	22,500.00	29,000.00	27,409.18
Local sinking fund.....					
Operating surplus.....	73,935.34	46,381.26	43,954.76	35,664.56	9,331.94
Total surplus.....	209,721.50	59,570.14	66,454.76	64,664.56	36,741.12
Total liabilities, reserves and surplus.....	482,902.07	151,687.25	135,523.62	122,881.43	87,964.60
Percentage of net debt to total assets.....	4.3	2.9	5.4	1.0	26.3

"A"—Continued

Hydro Municipalities as at December 31, 1945

Port Hope 4,881	Port McNicol 825	Port Perry 1,275	Port Rowan 584	Port Stanley 833	Prescott 3,318
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
11,691.21	369.08	2,564.65		1,574.60	2,761.54
3,100.00					
57,832.22	12,541.05	20,781.59	10,971.72	27,744.41	43,480.00
24,300.09	2,049.80	5,894.64	1,883.34	14,015.19	21,942.48
31,108.37	3,739.82	5,566.24	2,948.57	13,631.85	21,745.48
3,727.46	696.26	1,850.51	893.23	2,189.82	2,302.03
6,726.26	643.80	172.87	721.93	6,520.29	661.49
138,485.61	20,039.81	36,830.50	17,418.79	65,676.16	92,893.02
3,236.88	234.97	516.25	166.12	1,921.17	5,480.69
35,000.00	1,000.00	11,000.00	8,500.00	22,000.00	7,000.00
499.36	185.34	124.30	26.27	974.42	2,130.77
2,975.85				14.00	
87,349.81	8,583.92	24,732.64	9,532.21	55,574.44	68,685.62
267,547.51	30,044.04	73,203.69	35,643.39	146,160.19	176,190.10
		1,594.37	1,758.28		
	317.74	219.20		177.01	547.92
6,853.55	248.40	602.00	240.00	331.42	490.40
6,853.55	566.14	2,415.57	1,998.28	508.43	1,038.32
87,349.81	8,583.92	24,732.64	9,532.21	55,574.44	68,685.62
36,086.13	6,853.11	15,596.93	6,166.15	22,233.70	59,703.69
				5,075.23	
123,435.94	15,437.03	40,329.57	15,698.36	82,883.37	128,389.31
79,000.00	7,300.00	18,287.29	9,241.72	18,950.00	12,170.99
58,258.02	6,740.87	12,171.26	8,705.03	43,818.39	34,591.48
137,258.02	14,040.87	30,458.55	17,946.75	62,768.39	46,762.47
267,547.51	30,044.04	73,203.69	35,643.39	146,160.19	176,190.10
3.8	2.6	5.0	7.7	0.6	1.0

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Preston	Priceville	Princeton	Queenston	Renfrew
Population.....	6,707	P V.	P.V.	P.V.	5,673
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....		68.00			6,592.26
Substation equipment.....	57,211.70				16,038.65
Distribution system—overhead.....	94,042.55	5,609.84	4,478.31	8,868.77	36,320.47
Distribution system—underground.....					
Line transformers.....	56,618.30	1,120.36	3,473.44	3,499.29	36,352.80
Meters.....	45,040.20	707.08	1,675.78	1,971.61	27,484.10
Street light equipment, regular.....	6,502.32	317.88	207.93	447.84	22,358.76
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	8,577.44	833.90	80.37	2,565.95	4,037.00
Steam or hydraulic plant.....					496,804.65
Old plant.....	32,126.75				
Total plant.....	300,119.26	8,657.06	9,915.83	17,353.46	645,988.69
Bank and cash balance.....	12,521.29	531.79	1,451.68	540.84	24,451.19
Securities and investments.....	43,000.00	2,500.0	7,000.00	7,500.00	
Accounts Receivable.....	14,325.13	19.53	9.28	50.08	13,145.38
Inventories.....	5,744.34				
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	347,380.71	1,293.24	13,047.73	9,376.67	
Other assets.....	3.82	4.00			
Total assets.....	723,094.55	13,005.62	31,424.52	34,821.05	683,585.26
LIABILITIES					
Debenture balance.....	6,948.17			427.24	94,254.72
Accounts payable.....	10,349.68	108.96	21.21	0.50	1,504.80
Bank overdraft.....					
Other liabilities.....	1,221.73			70.00	
Total liabilities.....	18,519.58	108.96	21.21	497.74	95,759.52
RESERVES					
For equity in H-E.P.C. systems.....	347,380.71	1,293.24	13,047.73	9,376.67	
For depreciation.....	165,911.35	4,030.31	3,627.04	5,922.53	114,834.75
Other reserves.....	427.76				3,769.42
Total reserves.....	513,719.82	5,323.55	16,674.77	15,299.20	118,604.17
SURPLUS					
Debentures paid.....	145,851.83	7,000.00	3,550.00	9,072.76	416,982.01
Local sinking fund.....					
Operating surplus.....	45,003.32	573.11	11,178.54	9,951.35	52,239.56
Total surplus.....	190,855.15	7,573.11	14,728.54	19,024.11	469,221.57
Total liabilities, reserves and surplus.....	723,094.55	13,005.62	31,424.52	34,821.05	683,585.26
Percentage of net debt to total assets.....	4.9	0.9	0.1	1.9	14.0

“A”—Continued

Hydro Municipalities as at December 31, 1945

Richmond 412	Richmond Hill 1,454	Ridgetown 1,911	Ripley 358	Riverside 5,686	Rockwood P.V.	Rodney 718
\$ c.	\$ \$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	600.00	3,666.13	.....	11,371.12	79.00	.....
7,061.44	15,033.75	1,024.24	.....	.....	.....	.....
.....	.....	25,662.29	10,847.32	90,635.34	9,223.41	12,289.98
1,696.28	11,845.34	.....	.....	.....	.....	.....
1,829.10	7,592.13	12,970.07	5,607.47	31,000.02	3,823.65	4,270.82
194.48	1,338.88	11,188.06	2,406.60	30,603.45	3,793.97	4,297.92
.....	.....	6,976.68	844.33	.....	731.82	3,533.02
612.67	.....	1,431.73	.....	19,163.24	.....	.....
.....	.....	2,304.40	1,235.37	8,124.21	416.54	863.08
.....
11,393.97	36,410.10	.....	.....	.....	.....	.....
.....	.....	65,223.60	20,941.09	190,897.38	18,068.39	25,254.82
998.56	1,244.08	50.00	2,609.84	100.00	755.57	772.44
.....	11,500.00	18,000.00	.....	42,000.00	4,600.00	7,200.00
72.83	202.32	235.50	125.87	11,349.39	6.32	.....
.....	.....	469.80	.....	5,752.84	130.27	.....
4,409.30	28,642.50	.....	11,010.13	110,647.31	14,901.11	18,361.26
.....	.....	57,544.43	.....	.....	.....	.....
16,874.66	77,999.00	141,523.33	34,686.93	360,746.92	38,461.66	51,588.52
.....
1,514.98	.....	.....	3,562.27	.....	1,018.22	.....
.....	229.02	1,975.69	0.32	5,636.68	64.56	148.80
.....	.....	790.98	.....	7,863.74	.....	.....
74.87	534.28	2,321.73	623.83	21,379.35	173.72	310.00
.....
1,589.85	763.30	5,088.40	4,186.42	34,879.77	1,256.50	458.80
.....
4,409.30	28,642.50	57,544.43	11,010.13	110,647.31	14,901.11	18,361.26
3,091.48	4,312.68	23,812.03	5,443.49	60,379.31	8,424.26	6,057.33
.....	3,069.37	9,713.45	.....	11,512.33	.....	73.15
7,500.78	36,024.55	.....	16,453.62	182,538.95	23,325.37	24,491.74
.....	.....	91,069.91	.....	.....	.....	.....
4,985.02	12,200.00	.....	10,409.67	82,500.00	3,481.78	8,500.00
2,799.01	29,011.15	19,455.99	3,637.22	60,828.20	10,398.01	18,137.98
7,784.03	41,211.15	25,909.03	14,046.89	143,328.20	13,879.79	26,637.98
16,874.66	77,999.00	45,365.02	34,686.93	360,746.92	38,461.66	51,588.52
.....	.....	141,523.33	.....	.....	.....	.....
12.8	1.5	4.4	17.7	6.8	5.3	1.4

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Rosseau	Russell	St. Catharines	St. Clair Beach	St. George
Population.....	179	P.V.	34,541	230	P.V.
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....			31,162.35		
Substation equipment.....			165,257.36		
Distribution system—overhead....	7,857.44	8,215.46	300,969.58	10,177.92	6,233.91
Distribution system—underground.					
Line transformers.....	2,314.23	2,070.00	211,470.74	3,594.68	3,919.64
Meters.....	1,317.86	1,951.09	157,495.78	2,467.50	3,722.10
Street light equipment, regular....	623.60	589.70	24,760.94		355.08
Street light equipment, ornamental			29,486.71		
Miscellaneous construction expense	1,081.84	1,209.25	4,795.65		374.18
Steam or hydraulic plant.....					
Old plant.....			20,000.00		
Total plant.....	13,194.97	14,035.50	945,399.11	16,240.10	14,604.91
Bank and cash balance.....	1,643.23	1,341.69	25,448.09	184.48	940.26
Securities and investments.....	2,500.00	6,000.00	413,000.00	5,500.00	9,750.00
Accounts Receivable.....		38.78	49,876.42	340.92	10.99
Inventories.....			18,258.17		
Sinking fund on local debentures					
Equity in H-E.P.C. systems.....	5,135.38	7,571.87	942,552.65	9,289.91	18,738.26
Other assets.....			404.27		
Total assets.....	22,473.58	28,987.84	2,394,938.71	31,555.41	44,044.42
LIABILITIES					
Debenture balance.....	7,038.18		19,250.00		
Accounts payable.....		284.58	83,848.28	450.53	1.40
Bank overdraft.....					
Other liabilities.....	40.00	20.00	33,501.65	415.00	395.00
Total liabilities.....	7,078.18	304.58	136,599.93	865.53	396.40
RESERVES					
For equity in H-E.P.C. systems....	5,135.38	7,571.87	942,552.65	9,289.91	18,738.26
For depreciation.....	3,846.23	4,322.39	327,536.02	6,466.25	4,678.60
Other reserves.....	68.74		52,893.37	34.74	2,000.00
Total reserves.....	9,050.35	11,894.26	1,322,982.04	15,790.90	25,416.86
SURPLUS					
Debentures paid.....	5,961.82	10,000.00	282,772.91	6,341.45	6,000.00
Local sinking fund.....					
Operating surplus.....	383.23	6,789.00	652,583.83	8,557.53	12,231.16
Total surplus.....	6,345.05	16,789.00	935,356.74	14,898.98	18,231.16
Total liabilities, reserves and surplus.	22,473.58	28,987.84	2,394,938.71	31,555.41	44,044.42
Percentage of net debt to total assets.	40.8	1.4	7.5	3.9	1.6

“A”—Continued

Hydro Municipalities as at December 31, 1945

St. Jacobs P.V.	St. Marys 4,005	St. Thomas 17,773	Sarnia 20,082	Scarborough Twp. V.A.	Seaforth 1,724
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	19,194.78	79,093.04	146,696.90	21,446.77	1,836.39
.....	33,252.02	132,123.56	232,315.20	18,309.47	8,930.07
8,104.74	65,545.95	129,093.33	239,796.05	349,608.75	32,416.73
.....	.....	63,236.47	13,463.71	.....	.....
4,927.21	38,627.43	74,357.73	103,999.83	114,762.28	15,528.24
4,007.54	28,796.03	82,368.93	98,328.43	96,690.34	12,207.95
396.19	6,657.10	23,141.88	29,255.03	22,514.07	5,789.27
.....	.....	3,693.04	8,271.83	.....	.....
481.22	6,887.55	3,452.90	31,243.03	4,030.14	828.35
.....
.....	20,696.85	.....	.....	.....	.....
17,916.90	219,657.71	590,560.88	903,370.01	627,361.82	77,537.00
855.07	25.00	175.00	300.00	.....	3,603.30
10,000.00	25,000.00	171,000.00	170,000.00	205,000.00	13,000.00
8.54	797.64	25,048.71	7,239.30	16,684.64	2,016.59
.....	7,547.00	19,267.82	26,636.27	.....	1,304.48
.....
22,771.65	174,595.42	665,502.48	857,697.18	269,442.34	81,130.57
.....	358.16	.....	4,000.20	.....	.....
51,552.16	427,980.93	1,471,554.89	1,969,242.96	1,118,488.80	178,591.94
.....
.....	10,182.16	.....	.....	.....	8,390.20
.....	16,111.66	989.26	1,013.43	18,098.64	232.90
.....	424.14	7,069.04	4,135.45	325.51	.....
.....	1,214.00	19,169.26	20,297.30	61,891.93	628.78
.....
.....	27,931.96	27,227.56	25,446.18	80,316.08	9,251.88
.....
22,771.65	174,595.42	665,502.48	857,697.18	269,442.34	81,130.57
5,238.23	85,927.56	261,646.80	265,872.57	198,353.63	26,597.60
.....	3,205.93	25,440.77	66,178.14	59,200.38	322.90
28,009.88	263,728.91	952,590.05	1,189,747.89	526,996.35	108,051.07
.....
6,000.00	104,078.22	138,944.07	338,000.00	290,568.27	26,609.80
.....
17,542.28	32,241.84	352,793.21	416,048.89	220,608.10	34,679.19
23,542.28	136,320.06	491,737.28	754,048.89	511,176.37	61,288.99
51,552.16	427,980.93	1,471,554.89	1,969,242.96	1,118,488.80	178,591.94
0.0	11.1	2.9	1.6	9.5	9.5

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Shelburne	Simcoe	Smiths Falls	Smithville P.V.	Southampton 1,596
Population.....	985	6,047	7,708		
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	800.00	10,701.89	9,646.57		25.00
Substation equipment.....	566.60	41,527.90	4,765.59		
Distribution system—overhead....	15,649.81	63,620.23	95,666.34	11,063.51	27,746.94
Distribution system—underground..		1,412.24			
Line transformers.....	8,934.72	47,429.77	42,048.15	4,118.05	11,876.55
Meters.....	7,018.28	40,557.93	40,123.44	4,569.15	10,839.11
Street light equipment, regular....	1,106.93	14,833.69	9,634.74	1,630.00	2,813.94
Street light equipment, ornamental..		3,500.00			
Miscellaneous construction expense	2,189.46	6,414.11	2,118.26	305.10	275.71
Steam or hydraulic plant.....					
Old plant.....		927.92		1,878.98	2,477.00
Total plant.....	36,265.80	230,925.68	204,003.09	23,564.79	56,054.25
Bank and cash balance.....	509.94	30.00	8,938.76	2,351.27	1,982.81
Securities and investments.....	15,500.00	72,500.00	98,000.00	12,500.00	8,500.00
Accounts Receivable.....	130.35	2,182.19	1,447.81	25.21	140.58
Inventories.....		6,107.03	242.05	255.00	478.90
Sinking fund on local debentures..					
Equity in H-E.P.C. systems.....	25,973.02	153,912.55	140,342.89	1,996.08	18,287.53
Other assets.....					
Total assets.....	78,379.11	465,657.45	452,974.60	40,692.35	85,444.07
LIABILITIES					
Debenture balance.....		7,573.10		4,665.40	4,253.27
Accounts payable.....	87.45	1,055.61	491.32	54.34	73.43
Bank overdraft.....		4,511.26			
Other liabilities.....	102.45	5,145.14	167.50	85.00	4.74
Total liabilities.....	189.90	18,285.11	658.82	4,804.74	4,331.44
RESERVES					
For equity in H-E.P.C. systems....	25,973.02	153,912.55	140,342.89	1,996.08	18,287.53
For depreciation.....	19,829.34	52,144.77	109,984.86	7,868.91	12,699.36
Other reserves.....	1,500.00	26,300.00	5,456.63		
Total reserves.....	47,302.36	232,357.32	255,784.38	9,864.99	30,986.89
SURPLUS					
Debentures paid.....	19,920.00	67,861.80	122,787.33	10,334.60	28,746.66
Local sinking fund.....					
Operating surplus.....	10,966.85	147,153.22	73,744.07	15,688.02	21,379.08
Total surplus.....	30,886.85	215,015.02	196,531.40	26,022.62	50,125.74
Total liabilities, reserves and surplus.	78,379.11	465,657.45	452,974.60	40,692.35	85,444.07
Percentage of net debt to total assets.	0.4	4.8	0.2	12.4	6.5

“A”—Continued

Hydro Municipalities as at December 31, 1945

Springfield 401	Stamford Twp. V.A.	Stayner 1,162	Stirling 984	Stouffville 1,295	Stratford 17,161
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	8,682.41	.....	8,522.88	.....	141,455.78
.....	38,143.09	200.00	8,034.64	.....	183,365.75
10,276.05	175,045.41	16,849.59	7,322.19	15,694.81	156,608.30
.....	.....	.....	.....	.....	22,971.15
3,289.47	71,427.55	7,189.33	5,549.60	6,677.94	114,789.70
2,405.60	54,122.04	7,614.09	5,710.58	6,342.81	94,539.95
609.47	11,557.12	1,095.02	3,203.33	1,813.21	25,809.76
.....
918.57	11,098.72	310.33	1,301.20	662.92	17,566.60
.....
.....	13,743.66	.....	.....	.....	31,520.00
.....
17,499.16	383,820.00	33,258.36	39,644.42	31,191.69	788,626.99
.....	24,111.61	.....	8,086.28	162.02	13,986.30
5,500.00	36,000.00	11,000.00	12,500.00	17,500.00	248,000.00
819.77	12,248.12	193.72	768.05	.....	10,912.46
.....	6,219.36	.....	1,445.24	.....	9,833.96
.....	.....	.....	.....	.....	28,772.06
11,879.90	135,147.22	23,018.93	12,483.49	23,477.79	787,235.59
.....	462.74	.....	.....	.....	2,385.83
.....
35,698.83	598,009.05	67,471.01	74,927.48	72,331.50	1,889,753.19
.....
695.13	34,905.77	.....	.....	.....	50,000.00
2.69	928.98	192.29	.....	110.34	969.75
44.85	.....	204.96	.....	.....	.....
10.00	8,138.95	364.00	402.93	480.60	4,835.90
.....
752.67	43,973.70	761.25	402.93	590.94	55,805.65
.....
11,879.90	135,147.22	23,018.93	12,483.49	23,477.79	787,235.59
4,364.91	106,522.64	18,141.25	11,099.05	5,527.95	425,843.70
.....	44,271.00	43.11	.....	4,350.96	30,781.16
.....
16,244.81	285,940.86	41,203.29	23,582.54	33,356.70	1,243,860.45
.....
8,804.87	205,372.40	9,867.59	10,000.00	14,673.90	405,800.00
.....	.....	.....	.....	.....	28,772.06
9,896.48	62,722.09	15,638.88	40,942.01	23,709.96	155,515.03
.....
18,701.35	268,094.49	25,506.47	50,942.01	38,383.86	590,087.09
.....
35,698.83	598,009.05	67,471.01	74,927.48	72,331.50	1,889,753.19
.....
3.2	9.5	1.7	0.6	1.2	2.5

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Strathroy	Streets- ville	Sunder- land P.V.	Sutton	Swansea
Population.....	3,001	707		894	7,110
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	9,373.61	8,925.69			3,583.83
Substation equipment.....	29,660.70	1,172.04			
Distribution system—overhead....	50,498.65	9,610.37	4,528.58	22,756.43	82,450.67
Distribution system—underground..					
Line transformers.....	29,165.15	7,687.40	1,841.08	10,165.34	55,884.69
Meters.....	18,285.82	4,708.47	2,431.99	7,717.15	38,196.01
Street light equipment, regular....	6,238.53	1,619.31	670.57	1,995.15	13,652.09
Street light equipment, ornamental..					
Miscellaneous construction expense	3,071.06	879.65	142.22	1,664.34	5,390.15
Steam or hydraulic plant.....		10,641.55			
Old plant.....				675.00	
Total plant.....	146,293.52	45,244.48	9,614.44	44,973.41	199,157.44
Bank and cash balance.....	6,785.58	3,154.88	263.08	932.04	12,083.12
Securities and investments.....	29,000.00	2,000.00	4,000.00	11,000.00	65,000.00
Accounts Receivable.....	297.30	519.16		245.75	1,191.34
Inventories.....	1,365.99				
Sinking fund on local debentures..					
Equity in H-E.P.C. systems.....	120,812.52	5,209.42	13,396.88	23,300.08	124,620.77
Other assets.....					16.42
Total assets.....	304,554.91	56,127.94	27,274.40	80,451.28	402,069.09
LIABILITIES					
Debenture balance.....	9,771.05				50,170.85
Accounts payable.....	173.02	91.87	86.20	324.73	2,452.86
Bank overdraft.....					
Other liabilities.....	1,196.59	369.11	30.00	30.00	4,946.41
Total liabilities.....	11,140.66	460.98	116.20	354.73	57,570.12
RESERVES					
For equity in H-E.P.C. systems....	120,812.52	5,209.42	13,396.88	23,300.08	124,620.77
For depreciation.....	54,549.80	9,123.93	7,006.02	13,097.77	67,903.97
Other reserves.....	1,034.16	2,621.35	59.25	1,645.84	230.47
Total reserves.....	176,396.48	16,954.70	20,462.15	38,043.69	192,755.21
SURPLUS					
Debentures paid.....	44,117.80	17,545.08	4,770.00	26,000.00	52,496.11
Local sinking fund.....					
Operating surplus.....	72,899.97	21,167.18	1,926.05	16,052.86	99,247.65
Total surplus.....	117,017.77	38,712.26	6,696.05	42,052.86	151,743.76
Total liabilities, reserves and surplus.	304,554.91	56,127.94	27,274.40	80,451.28	402,069.09
Percentage of net debt to total assets.	3.9	0.9	0.8	0.6	20.7

"A"—Continued

Hydro Municipalities as at December 31, 1945

Tara 482	Tavistock 1,037	Tecumseh 2,794	Teeswater 846	Thamesford P.V.	Thamesville 777	Thedford 573
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	3,752.33	1,232.16	.....	.....	681.69	.....
11,685.44	13,967.31	40,935.71	330.31 18,065.27	8,398.15	13,626.41	10,765.46
3,518.91	8,855.00	11,955.50	6,795.07	4,420.97	5,773.60	4,915.12
2,381.18	6,868.09	15,598.16	4,039.04	3,579.70	4,930.28	3,343.78
2,721.65	1,152.93	.....	1,495.82	485.47	2,376.70	1,110.94
1,431.20	984.05	4,760.95 2,474.70	1,744.35	285.22	231.25	1,799.60
.....	.....	.....	4,976.86	.....	.....	433.78
21,738.38	35,579.71	76,957.18	37,446.72	17,169.51	27,619.93	22,368.68
554.02	15.00	50.00	177.68	234.57	868.69	1,373.65
10,500.00	13,500.00	15,000.00	11,500.00	4,000.00	16,500.00	12,000.00
58.73	25.91	2,442.12	26.12	.....	253.26	103.26
.....	685.36	332.76	.....	.....	.....	.....
11,517.96	61,245.22	35,811.47	16,673.50	22,923.19	23,215.61	13,065.76
.....	252.00	.....	.....	.....	.....	.....
44,369.09	111,303.20	130,593.53	65,824.02	44,327.27	68,457.49	48,911.35
.....	371.72	.....	.....	.....	.....	.....
116.80	301.35	1,398.39	2.38	20.95	200.40	213.67
.....	437.53	404.33	.....	.....	.....	.....
.....	.....	5,396.00	46.00	92.00	426.00	11.39
116.80	1,110.60	7,198.72	48.38	112.95	626.40	225.06
11,517.96	61,245.22	35,811.47	16,673.50	22,923.19	23,215.61	13,065.76
11,790.30	16,248.27	22,344.70	13,095.67	7,321.78	13,824.74	7,009.54
.....	1,000.00	5,989.57	1,000.00	.....	164.86	.....
23,308.26	78,493.49	64,145.74	30,769.17	30,244.97	37,205.21	20,075.30
15,500.00	5,628.28	26,000.00	28,000.00	5,358.03	11,187.80	16,500.00
5,444.03	26,070.83	33,249.07	7,006.47	8,611.32	19,438.08	12,110.99
20,944.03	31,699.11	59,249.07	35,006.47	13,969.35	30,625.88	28,610.99
44,369.09	111,303.20	130,593.53	65,824.02	44,327.27	68,457.49	48,911.35
0.3	2.2	2.7	0.1	0.5	1.4	0.6

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Thorn- bury 803	Thorn- dale P.V.	Thornton P.V.	Thorold 5,517	Tilbury 1,995
Population.....					
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....				10,837.37	11,987.47
Substation equipment.....	2,164.11			2,572.33	
Distribution system—overhead....	11,000.00	4,004.45	6,846.75	44,792.09	17,913.17
Distribution system—underground.					
Line transformers.....	7,100.00	2,315.45	1,764.80	25,388.83	14,944.73
Meters.....	4,000.00	2,137.34	1,076.25	26,071.23	9,147.95
Street light equipment, regular....	1,035.00	181.19	433.25	3,326.51	1,080.92
Street light equipment, ornamental					
Miscellaneous construction expense	21.60	148.95	300.35	1,997.59	1,480.89
Steam or hydraulic plant.....	36,000.00				
Old plant.....					
Total plant.....	61,320.71	8,787.38	10,421.40	114,985.95	56,555.13
Bank and cash balance.....	6,408.89	284.69	900.29	6,151.00	
Securities and investments.....		4,000.00	2,500.00	85,800.00	22,000.00
Accounts Receivable.....	11.42	24.44	14.19	277.83	462.87
Inventories.....				2,713.97	16.76
Sinking fund on local debentures.					
Equity in H-E.P.C. systems.....		11,304.18	4,504.96	141,715.85	69,393.15
Other assets.....				135.25	15.96
Total assets.....	67,741.02	24,400.69	18,340.84	351,779.85	148,443.87
LIABILITIES					
Debenture balance.....	6,755.92				
Accounts payable.....	2,852.31		18.06	7,339.88	157.74
Bank overdraft.....					701.56
Other liabilities.....		476.57		2,604.50	27.25
Total liabilities.....	9,608.23	476.57	18.06	9,944.38	886.55
RESERVES					
For equity in H-E.P.C. systems....		11,304.18	4,504.96	141,715.85	69,393.15
For depreciation.....	3,929.82	5,568.82	6,953.57	43,684.86	22,689.63
Other reserves.....		424.04			5,648.60
Total reserves.....	3,929.82	17,297.04	11,458.53	185,400.71	97,731.38
SURPLUS					
Debentures paid.....	49,244.08	3,086.48	7,500.00	5,000.00	14,000.00
Local sinking fund.....					
Operating surplus.....	4,958.89	3,540.60	*635.75	151,434.76	35,825.94
Total surplus.....	54,202.97	6,627.08	6,864.25	156,434.76	49,825.94
Total liabilities, reserves and surplus.	67,741.02	24,400.69	18,340.84	351,779.85	148,443.87
Percentage of net debt to total assets.	14.2	3.6	0.1	4.7	1.1

* Deficit.

“A”—Continued

Hydro Municipalities as at December 31, 1945

Tillsonburg 4,031	Toronto* 676,887	Toronto Twp. V.A.	Tottenham 454	Trafalgar Twp. No. 1 V.A.	Trafalgar Twp. No. 2 V.A.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
4,824.27	5,551,160.48	8,072.99		156.34	
21,899.54	14,806,106.11		358.50	839.61	
54,436.09	6,990,314.30	228,598.87	9,127.77	24,384.10	12,799.83
	4,113,524.59				
30,884.35	3,710,160.13	96,058.56	1,797.12	13,765.21	3,415.30
25,748.51	3,159,688.93	59,618.32	2,905.98	6,839.88	1,989.56
12,519.72	439,263.25	6,991.25	496.86	36.11	
1,450.32	2,104,947.74	3,076.61	1,322.82	1,466.20	312.70
		619.65	286.45		
151,762.80	40,875,165.53	403,036.25	16,295.50	47,487.45	18,517.39
50.00	299,563.70	11,141.52	185.98	2,360.35	
38,500.00	10,850,128.54	39,000.00	4,000.00	9,000.00	6,000.00
529.13	1,883,045.69	684.64	0.20	599.96	132.81
1,696.25	459,473.82			25.92	
	4,205,854.26				
119,214.12	27,314,558.46	163,214.48	14,511.32	10,003.01	3,612.95
	14,535.51				
311,752.30	85,902,325.51	617,076.89	34,993.00	69,476.69	28,263.15
8,181.09	7,443,100.00	8,933.30	1,088.61		4,399.63
57.60	1,111,211.37	12,051.51	417.53	22.60	629.89
2,756.43					147.43
4,139.61	345,166.06	6,757.54	243.00	20.00	
15,134.73	8,899,477.43	27,742.35	1,749.14	42.60	5,176.95
119,214.12	27,314,558.46	163,214.48	14,511.32	10,003.01	3,612.95
42,248.62	14,088,177.98	180,882.18	9,407.77	24,895.09	5,642.09
12,221.79	1,189,651.57	2,067.20			
173,684.53	42,592,388.01	346,163.86	23,919.09	34,898.10	9,255.04
37,818.91	22,853,442.76	95,066.70	11,878.49	19,426.41	5,061.52
	4,205,854.26				
85,114.13	7,351,163.05	148,103.98	†2,553.72	15,109.58	8,769.64
122,933.04	34,410,460.07	243,170.68	9,324.77	34,535.99	13,831.16
311,752.30	85,902,325.51	617,076.89	34,993.00	69,476.69	28,263.15
7.9	8.6	6.1	8.5	0.0	21.0

* Includes 1945 power adjustment and equity. † Deficit.

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Trenton	Tweed	Uxbridge	Victoria Harbour	Walker- ton
Population.....	9,849	1,250	1,439	894	2,723
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	5,139.41		40.00		
Substation equipment.....	49,132.98		2,657.65		
Distribution system—overhead....	121,793.04	17,006.35	15,823.13	10,801.58	42,914.08
Distribution system—underground..					
Line transformers.....	28,322.48	4,939.93	5,728.64	2,371.26	16,027.21
Meters.....	43,624.55	6,711.95	6,560.92	3,843.29	14,848.26
Street light equipment, regular....	18,966.48	2,251.51	1,505.99	366.32	2,771.24
Street light equipment, ornamental					
Miscellaneous construction expense	8,682.46		924.90	666.37	1,960.50
Steam or hydraulic plant.....					
Old plant.....					4,897.60
Total plant.....	275,661.40	30,909.74	33,241.23	18,048.82	83,418.89
Bank and cash balance.....	3,264.03	1,683.10	2,774.24	1,268.09	7,511.92
Securities and investments.....	105,500.00	12,000.00	9,000.00	5,300.00	20,000.00
Accounts Receivable.....	911.33	993.43	292.38	94.35	551.62
Inventories.....	4,841.01	1,377.13	37.61		1,356.08
Sinking fund on local debentures..					
Equity in H-E.P.C. systems.....	126,935.79	14,274.45	26,818.31	8,687.93	31,324.49
Other assets.....	163.99				
Total assets.....	517,277.55	61,237.85	72,163.77	33,399.19	144,163.00
LIABILITIES					
Debenture balance.....					25,659.06
Accounts payable.....	229.58	462.54	466.21	54.50	176.57
Bank overdraft.....					
Other liabilities.....	6,463.91	332.00	457.00		234.00
Total liabilities.....	6,693.49	794.54	923.21	54.50	26,069.63
RESERVES					
For equity in H-E.P.C. systems....	126,935.79	14,274.45	26,818.31	8,687.93	31,324.49
For depreciation.....	71,310.89	4,061.35	10,875.23	8,363.46	19,262.39
Other reserves.....	26,500.00	1,937.58	2,486.77		37.15
Total reserves.....	224,746.68	20,273.38	40,180.31	17,051.39	50,624.03
SURPLUS					
Debentures paid.....	165,000.00	19,000.00	16,207.59	6,500.00	37,340.94
Local sinking fund.....					
Operating surplus.....	120,837.38	21,169.93	14,852.66	9,793.30	30,128.40
Total surplus.....	285,837.38	40,169.93	31,060.25	16,293.30	67,469.34
Total liabilities, reserves and surplus.	517,277.55	61,237.85	72,163.77	33,399.19	144,163.00
Percentage of net debt to total assets.	1.7	1.7	2.0	0.2	23.1

“A”—Continued

Hydro Municipalities as at December 31, 1945

Wallace- burg 5,088	Wardsville 226	Warkworth P.V.	Waterdown 916	Waterford 1,352	Waterloo 9,460	Watford 972
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
46,008.56			200.00	1,323.44	17,404.89	100.00
12,857.49					99,841.54	
79,809.30	5,415.22	5,845.45	16,618.52	16,856.81	97,578.05	17,968.55
56,842.47	1,619.80	1,397.16	8,648.48	9,556.74	67,267.10	8,853.62
32,660.97	1,504.13	2,263.98	6,936.79	7,864.83	48,891.42	6,718.12
12,734.41	662.94	338.08	1,104.66	3,231.62	14,318.75	2,757.32
					3,106.80	
3,995.10	488.73	609.19	9.77	402.30	5,402.34	2,677.14
		3,618.02			23,880.17	
244,908.30	9,690.82	14,071.88	33,518.22	39,235.74	377,691.06	39,074.75
75.00	169.02	440.11	2,638.44	1,376.62	7,246.09	758.37
70,500.00	5,000.00	4,700.00	9,000.00	14,000.00	104,000.00	15,300.00
3,499.85	790.19	26.96	304.73	54.41	1,527.90	574.63
13,974.51				297.95	916.40	727.91
262,139.47	4,905.00	5,409.54	29,040.50	43,189.69	362,226.63	32,871.86
703.20			31.25			509.61
595,800.33	20,555.03	24,648.49	74,533.14	98,154.41	853,608.08	89,817.13
		5,435.48				
228.51	131.64		31.51	180.30	10.00	129.63
1,821.04						
3,502.35		28.00	109.28		3,106.80	291.20
5,551.90	131.64	5,463.48	140.79	180.30	3,116.80	420.83
262,139.47	4,905.00	5,409.54	29,040.50	43,189.69	362,226.63	32,871.86
77,245.36	4,331.43	4,094.52	10,861.21	15,342.80	191,823.21	14,675.19
30,879.17	25.22			2,500.00	735.26	109.17
370,264.00	9,261.65	9,504.06	39,901.71	61,032.49	554,785.10	47,656.22
71,536.58	7,562.40	5,564.52	8,000.00	7,745.53	106,000.00	9,055.77
148,447.85	3,599.34	4,116.43	26,490.64	29,196.09	189,706.18	32,684.31
219,984.43	11,161.74	9,680.95	34,490.64	36,941.62	295,706.18	41,740.08
595,800.33	20,555.03	24,648.49	74,533.14	98,154.41	853,608.08	89,817.13
1.7	0.8	28.4	0.3	0.3	0.0	0.8

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Waubau- shene P.V.	Welland	Wellesley	Wellington 909	West Lorne 791
Population.....		15,780	P.V.		
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....		77,006.74		200.00	2,526.50
Substation equipment.....		117,054.79		499.80	
Distribution system—overhead....	10,197.44	188,249.39	7,878.24	16,424.13	13,556.06
Distribution system—underground..		8,044.90			
Line transformers.....	3,136.34	122,887.78	3,153.94	5,362.87	7,180.45
Meters.....	3,448.39	83,391.09	3,174.66	6,935.39	5,139.70
Street light equipment, regular....	303.35	11,793.06	545.11	1,349.61	881.46
Street light equipment, ornamental		40,273.85			
Miscellaneous construction expense	273.24	9,192.13	177.75	1,563.47	438.19
Steam or hydraulic plant.....					
Old plant.....				2,477.92	
Total plant.....	17,358.76	657,893.73	14,929.70	34,813.19	29,722.36
Bank and cash balance.....	390.87	21,488.99	287.48	328.92	233.21
Securities and investments.....	700.00	238,839.38	7,500.00	12,000.00	9,000.00
Accounts Receivable.....	73.93	1,727.52	0.38	19.09	134.99
Inventories.....		16,104.97			360.36
Sinking fund on local debentures..					
Equity in H-E.P.C. systems.....	6,333.35	436,662.77	20,857.46	14,177.96	32,445.94
Other assets.....		36.03	0.73		
Total assets.....	24,856.91	1,372,753.39	43,575.75	61,339.16	71,896.86
LIABILITIES					
Debenture balance.....				2,028.01	
Accounts payable.....	150.00	1,191.16	6.73	48.74	285.39
Bank overdraft.....					
Other liabilities.....		53,051.93		46.25	116.10
Total liabilities.....	150.00	54,243.09	6.73	2,123.00	401.49
RESERVES					
For equity in H-E.P.C. systems....	6,333.35	436,662.77	20,857.46	14,177.96	32,445.94
For depreciation.....	4,476.32	236,752.75	5,463.98	13,610.36	11,272.19
Other reserves.....	125.00	3,675.65			65.12
Total reserves.....	10,934.67	677,091.17	26,321.44	27,788.32	43,783.25
SURPLUS					
Debentures paid.....	3,500.00	275,000.00	7,500.00	14,971.99	8,000.00
Local sinking fund.....					
Operating surplus.....	10,272.24	366,419.13	9,747.58	16,455.85	19,712.12
Total surplus.....	13,772.24	641,419.13	17,247.58	31,427.84	27,712.12
Total liabilities, reserves and surplus.	24,856.91	1,372,753.39	43,575.75	61,339.16	71,896.86
Percentage of net debt to total assets.	0.8	1.6	0.0	4.5	1.0

“A”—Continued

Hydro Municipalities as at December 31, 1945

Weston 6,333	Westport 663	Wheatley 716	Whitby 4,641	Warton 1,709	Williams- burg P.V.	Winchester 959
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
11,903.31		52.50	6,619.20			299.85
72,093.84			34,288.16	333.57		
75,593.10	7,755.76	17,948.57	63,163.13	22,628.44	3,471.38	10,922.82
61,262.35	1,864.78	6,080.28	18,083.86	7,690.31	1,978.92	4,906.59
34,808.04	2,028.86	5,038.84	23,290.74	8,354.48	2,391.10	6,275.72
28,905.57	733.02	7,626.61	12,800.45	2,914.96	174.61	719.87
5,164.80	1,285.07	1,070.13	6,934.35	5,123.83	35.38	315.52
	1,713.00		1,340.13	1,870.35		1,100.00
289,731.01	15,380.49	37,816.93	166,520.02	48,915.94	8,051.39	24,540.37
2,859.92	485.59	1,846.73	1,739.46	2,153.75	1,167.07	3,245.01
31,500.00	5,000.00	8,500.00	57,000.00	19,000.00	23,000.00	10,500.00
650.76	4.46	100.33	2,330.11	697.77	22.94	54.44
597.12		162.87	511.82			
324,382.89	7,396.36	19,123.53	72,192.00	20,977.67	8,322.06	26,297.70
		253.58				
649,721.70	28,266.90	67,803.97	300,293.41	91,745.13	40,563.46	64,637.52
	6,270.34		3,256.69	17,365.41		
		3,267.98	371.08	116.18	24.91	266.11
822.22	235.00	244.57	1,471.43	212.21	358.34	10.00
822.22	6,505.34	3,512.55	5,099.20	17,693.80	383.25	276.11
324,382.89	7,396.36	19,123.53	72,192.00	20,977.67	8,322.06	26,297.70
62,125.25	3,108.92	9,148.69	36,583.14	9,953.98	4,323.88	12,087.18
361.53		62.71		2,996.25	327.28	
386,869.67	10,505.28	28,334.93	108,775.14	33,927.90	12,973.22	38,384.88
70,032.44	8,729.66	13,000.00	73,355.81	20,034.59	2,750.00	10,650.00
191,997.37	2,526.62	22,956.49	113,063.26	20,088.84	24,456.99	15,326.53
262,029.81	11,256.28	35,956.49	186,419.07	40,123.43	27,206.99	25,976.53
649,721.70	28,266.90	67,803.97	300,293.41	91,745.13	40,563.46	64,637.52
0.3	31.2	7.2	2.2	25.0	1.2	0.7

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Windermere	Windsor	Wingham	Woodbridge
Population.....	100	117,031	2,051	1,089
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....		599,609.45	21,513.45	
Substation equipment.....		1,414,642.70	4,863.91	
Distribution system—overhead.....	9,980.66	1,391,066.71	42,235.73	20,081.44
Distribution system—underground.....		227,541.83		
Line transformers.....	3,751.74	614,157.03	21,879.07	8,258.44
Meters.....	1,235.36	597,956.85	17,625.70	6,917.67
Street light equipment, regular.....	247.26	102,536.51	11,317.69	624.03
Street light equipment, ornamental.....		1,021,495.33		
Miscellaneous construction expense.....	533.63	175,253.59	6,080.39	705.13
Steam or hydraulic plant.....			14,711.99	
Old plant.....		166,440.66	12,320.02	
Total plant.....	15,748.65	6,310,700.66	152,547.95	36,586.71
Bank and cash balance.....	547.03	1,075.00		537.51
Securities and investments.....	4,400.00	1,509,609.84		14,000.00
Accounts Receivable.....	14.78	141,068.50	1,900.00	112.45
Inventories.....		187,478.37	8,292.84	
Sinking fund on local debentures.....		81,458.03		
Equity in H-E.P.C. systems.....	3,517.48	4,120,207.86	52,573.28	43,776.58
Other assets.....				
Total assets.....	24,227.94	12,351,598.26	215,314.07	95,013.25
LIABILITIES				
Debenture balance.....	5,225.30	283,689.08	14,828.69	
Accounts payable.....	424.69	121,335.41	0.83	2,229.01
Bank overdraft.....		148,665.79	973.32	
Other liabilities.....		1,143,276.65	677.15	646.57
Total liabilities.....	5,649.99	1,696,966.93	16,479.99	2,875.58
RESERVES				
For equity in H-E.P.C. systems.....	3,517.48	4,120,207.86	52,573.28	43,776.58
For depreciation.....	4,985.37	1,856,766.24	45,209.66	13,886.98
Other reserves.....		569,607.60		5,200.00
Total reserves.....	8,502.85	6,546,581.70	97,782.94	62,863.56
SURPLUS				
Debentures paid.....	6,538.00	2,300,142.97	82,276.81	8,499.97
Local sinking fund.....		81,458.03		
Operating surplus.....	3,537.10	1,726,448.63	19,774.33	20,774.14
Total surplus.....	10,075.10	4,108,049.63	101,051.14	29,274.11
Total liabilities, reserves and surplus.....	24,227.94	12,351,598.26	215,314.07	95,013.25
Percentage of net debt to total assets.....	27.3	8.3	10.1	5.6

“A”—Continued

Hydro Municipalities as at December 31, 1945

Woodstock	Woodville	Wyoming	York Twp.	Zurich	SOUTHERN ONTARIO SYSTEM SUMMARY
12,916	381	480	V.A.	P.V.	
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
44,201.83		50.00	76,503.47		11,135,520.97
134,846.07			344,887.42		25,444,678.45
136,691.12	3,560.96	11,470.26	829,231.97	7,373.89	25,464,745.05
					6,539,797.63
81,305.44	2,167.24	3,194.98	368,120.66	2,844.27	12,926,097.93
72,133.62	2,234.83	3,488.42	364,157.31	2,920.32	11,262,253.98
22,895.71	548.71	548.49	71,181.61	471.82	2,779,359.43
					1,551,628.63
6,100.45	251.91	853.52	55,305.22	347.29	3,377,496.36
					680,977.39
				150.00	692,517.55
498,174.24	8,763.65	19,605.67	2,109,387.66	14,107.59	101,855,073.37
	1,146.19	292.65		303.75	1,732,817.22
133,000.00	5,000.00	2,600.00	461,500.00	9,500.00	26,134,426.07
3,640.44	495.54	50.88	57,647.42	152.25	3,552,960.71
355.03			40,978.05		1,631,665.07
					4,823,164.34
554,454.69	13,040.99	10,861.71	1,019,808.89	17,620.36	71,015,455.54
265.30					283,938.60
1,189,889.70	28,446.37	33,410.91	3,689,322.02	41,683.95	211,029,500.92
			64,985.67	723.18	10,228,887.43
2,955.60	462.26	155.61	74,047.35	58.66	2,390,657.93
3,001.67			25,627.83		422,369.51
9,443.47	22.00	116.06	33,709.73	10.00	2,603,381.71
15,400.74	484.26	271.67	198,370.58	791.84	15,645,296.58
554,454.69	13,040.99	10,861.71	1,019,808.89	17,620.36	71,015,455.54
235,170.63	4,052.16	6,723.53	803,412.51	7,982.89	34,898,799.28
65,141.61	957.22		14,641.05		6,535,295.85
854,766.93	18,050.37	17,585.24	1,837,862.45	25,603.25	112,449,550.67
127,385.63	5,500.00	9,700.00	424,388.98	4,868.43	45,971,078.01
					4,823,164.34
192,336.40	4,411.74	5,854.00	1,228,700.01	10,420.43	32,140,411.32
319,722.03	9,911.74	15,554.00	1,653,088.99	15,288.86	82,934,653.67
1,189,889.70	28,446.37	33,410.91	3,689,322.02	41,683.95	211,029,500.92
2.4	3.1	1.2	7.4	3.3	6.9

STATEMENT

Balance Sheets of Electrical Departments of

THUNDER BAY SYSTEM

Municipality.....	Fort William	Nipigon Twp. V.A.	Port Arthur	THUNDER BAY SYSTEM SUMMARY
Population.....	28,642		24,469	
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	105,692.48	215.03	468,753.16	574,660.67
Substation equipment.....	150,522.43		311,881.37	462,403.80
Distribution system—overhead.....	256,027.42	18,911.38	528,157.63	803,096.43
Distribution system—underground.....				
Line transformers.....	113,747.53	5,453.41	126,967.35	246,168.29
Meters.....	103,641.01	4,699.16	127,731.50	236,071.67
Street light equipment, regular.....	50,020.00	2,436.86	83,830.13	136,286.99
Street light equipment, ornamental.....				
Miscellaneous construction expense.....	16,283.76	300.00	32,575.23	49,158.99
Steam or hydraulic plant.....			325,003.44	325,003.44
Old plant.....				
Total plant.....	795,934.63	32,015.84	2,004,899.81	2,832,850.28
Bank and cash balance.....		627.72		627.72
Securities and investments.....	251,300.00	11,000.00	821,653.26	1,083,953.26
Accounts Receivable.....	36,043.69	657.29	43,841.56	80,542.54
Inventories.....	36,050.39		25,097.67	61,148.06
Sinking fund on local debentures.....	129,554.28			129,554.28
Equity in H-E.P.C. systems.....	1,051,765.28	10,252.85	2,924,877.71	3,986,895.84
Other assets.....	1,200.00	25.08	4,142.71	5,367.79
Total assets.....	2,301,848.27	54,578.78	5,824,512.72	8,180,939.77
LIABILITIES				
Debenture balance.....	250,000.00			250,000.00
Accounts payable.....	34,827.48		48,501.20	83,328.68
Bank overdraft.....	3,270.03		3,035.37	6,305.40
Other liabilities.....	36,029.35	171.24		36,200.59
Total liabilities.....	324,126.86	171.24	51,536.57	375,834.67
RESERVES				
For equity in H-E.P.C. systems.....	1,051,765.28	10,252.85	2,924,877.71	3,986,895.84
For depreciation.....	212,538.45	6,558.13	787,647.33	1,006,743.91
Other reserves.....	63,498.50	3,500.00	150,751.04	217,749.54
Total reserves.....	1,327,802.23	20,310.98	3,863,276.08	5,211,389.29
SURPLUS				
Debentures paid.....	124,209.11	10,000.00	642,100.00	776,309.11
Local sinking fund.....	129,554.28			129,554.28
Operating surplus.....	396,155.79	24,096.56	1,267,600.07	1,687,852.42
Total surplus.....	649,919.18	34,096.56	1,909,700.07	2,593,715.81
Total liabilities, reserves and surplus.....	2,301,848.27	54,578.78	5,824,512.72	8,180,939.77
Percentage of net debt to total assets.....	17.4	0.4	1.9	6.1

"A"—Concluded

Hydro Municipalities as at December 31, 1945

NORTHERN ONTARIO DISTRICTS

Capreol	North Bay	Sioux Lookout	Sudbury	NORTHERN ONTARIO DISTRICTS SUMMARY	ALL SYSTEMS GRAND SUMMARY
1,675	15,827	1,723	35,372		
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
450.00	56,591.17		112,246.75	169,287.92	11,879,469.56
9,730.32	71,146.87		213,661.48	294,538.67	26,201,620.92
13,664.22	152,703.43	9,450.81	392,204.84	568,023.30	26,835,864.78
					6,539,797.63
6,474.57	47,358.72	4,181.51	130,716.71	188,731.51	13,360,997.73
5,691.91	85,088.92	6,308.05	147,306.15	244,395.03	11,742,720.68
1,126.26	29,613.45	1,794.15	118,065.78	150,599.64	3,066,246.06
					1,551,628.63
729.90	24,239.21	688.00	16,944.23	42,601.34	3,469,256.69
					1,005,980.83
					692,517.55
37,867.18	466,741.77	22,422.52	1,131,145.94	1,658,177.41	106,346,101.06
	453.20	5,097.33	5,831.92	11,382.45	1,744,827.39
10,000.00	84,500.00		217,500.00	312,000.00	27,530,379.33
229.89	19,789.50	758.60	27,827.11	48,605.10	3,682,108.35
	11,636.70	632.09	30,843.29	43,112.08	1,735,925.21
					4,952,718.62
	716.46			716.46	75,002,351.38
					290,022.85
48,097.07	583,837.63	28,910.54	1,413,148.26	2,073,993.50	221,284,434.19
	67,000.00		66,707.59	133,707.59	10,612,595.02
1,331.32	2,653.47	331.40	49,778.62	54,094.81	2,528,081.42
910.73				910.73	429,585.64
445.00	31,271.25	2,610.80	33,605.86	67,932.91	2,707,515.21
2,687.05	100,924.72	2,942.20	150,092.07	256,646.04	16,277,777.29
					75,002,351.38
7,821.31	252,300.81	2,388.33	163,865.44	426,375.89	36,331,919.08
96.09	51,696.01	137.81	174,099.17	226,029.08	6,979,074.47
7,917.40	303,996.82	2,526.14	337,964.61	652,404.97	118,313,344.93
19,000.00	173,000.00		400,630.94	592,630.94	47,340,018.06
18,492.62	5,916.09	23,442.20	524,460.64	572,311.55	4,952,718.62
37,492.62	178,916.09	23,442.20	925,091.58	1,164,942.49	86,693,311.97
48,097.07	583,837.63	28,910.54	1,413,148.26	2,073,993.50	221,284,434.19
5.6	17.2	10.2	10.6	12.4	7.0

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM

Municipality.....	Acton	Agincourt	Ailsa Craig 434	Alexandria	Alliston
Population.....	1,876	P.V.		1,904	1,542
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	14,980.46	6,231.92	2,880.69	7,694.17	12,779.34
Commercial light service.....	6,168.47	1,533.34	1,111.79	4,779.17	8,293.81
Commercial power service.....	30,637.21	775.70	1,711.11	4,104.96	4,006.36
Municipal power.....	784.78			827.15	911.24
Street lighting.....	2,024.49	804.00	696.00	1,952.33	2,001.00
Merchandise.....	69.99				1.74
Miscellaneous.....	632.50	442.95	362.71	1,121.64	974.70
Total earnings.....	55,297.90	9,787.91	6,762.30	20,479.42	28,968.19
EXPENSES					
Power purchased.....	42,277.34	5,712.94	4,965.18	10,008.20	14,438.89
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	2,989.38	54.51	53.71	1,873.67	2,396.45
Line transformer maintenance.....	25.70	17.95		58.00	121.33
Meter maintenance.....	144.46	68.48	0.75	227.96	277.77
Consumers' premises expenses.....	110.05	89.18			34.20
Street lighting, operation and main- tenance.....	435.17	20.65	32.20	265.81	483.35
Promotion of business.....					
Billing and collecting.....	1,029.58	506.15	380.00	850.78	1,173.51
General office, salaries and expenses..	1,350.68	137.23	91.70	1,090.86	478.07
Undistributed expenses.....	684.71		21.01	107.19	101.60
Truck operation and maintenance....	131.76			290.03	
Interest.....					394.91
Sinking fund and principal payments on debentures.....					2,028.62
Depreciation.....	1,835.00	589.00	396.00	1,242.00	1,239.00
Other reserves.....					
Total operating costs and fixed charges.....	51,013.83	7,196.09	5,940.55	16,014.50	23,167.70
Net surplus.....	4,284.07	2,591.82	821.75	4,464.92	5,800.49
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	552	173	147	456	448
Commercial light service.....	86	31	33	103	125
Power service.....	19	3	4	16	20
Total.....	657	207	184	575	593

“B”

Hydro Municipalities for Year Ended December 31, 1945

Almonte 2,136	Alvinston 620	Amherst- burg 2,709	Ancaster Twp. V.A.	Apple Hill P.V.	Arkona 376	Arnprior 4,049
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
12,978.29	3,515.97	24,534.29	13,769.27	1,369.33	2,827.70	19,050.58
5,105.27	1,902.03	9,351.67	4,819.57	859.17	1,358.25	9,589.62
5,557.86	1,175.71	10,697.53	720.41	581.70	287.89	17,290.80
704.51	222.94		250.48			2,319.78
2,703.00	1,595.00	2,205.16	1,166.50	493.50	1,092.00	3,113.50
1,528.91	287.50	1,224.83	210.00	120.48	121.97	1,322.95
28,577.84	8,699.15	48,013.48	20,936.23	3,424.18	5,687.81	52,687.23
7,822.81	4,278.93	29,434.02	10,622.89	1,464.87	2,325.42	25,890.70
5,261.98						
406.07						
2,842.96	427.49	3,112.52	1,970.70	216.71	183.17	1,034.10
199.67			87.78			154.74
269.18	153.38	396.54	379.22	32.81	104.65	717.52
74.61		1,112.29	145.55			55.71
355.28	110.92	790.05	400.05	76.85	41.20	321.42
555.03		86.74				
1,423.56	438.27	1,135.24	1,505.72	216.18	265.15	2,594.83
1,864.53	185.55	786.31	602.67	59.15	95.08	2,384.82
1,563.13	38.09	113.75	181.12		11.50	
445.71		109.67				
1,805.64		285.67	286.03		61.49	697.23
3,067.94		2,481.00	922.90		1,070.78	3,041.28
3,409.00	590.00	1,815.00	855.00	156.00	500.00	1,536.00
31,367.10	6,222.63	41,658.80	17,959.63	2,222.57	4,658.44	38,428.35
	2,476.52	6,354.68	2,976.60	1,201.61	1,029.37	14,258.88
2,789.26						
674	205	761	396	70	118	915
101	51	140	45	24	34	164
23	5	15	9	2	2	22
798	261	916	450	96	154	1,101

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Arthur	Athens	Aurora	Aylmer	Ayr
Population.....	836	643	2,990	2,474	718
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	5,532.37	3,847.25	23,618.08	16,594.70	6,278.65
Commercial light service.....	5,051.03	1,748.68	8,003.82	12,463.86	2,312.50
Commercial power service.....	1,351.94	816.96	16,037.36	9,228.18	900.06
Municipal power.....	420.47		1,518.38	948.95	
Street lighting.....	1,395.00	1,065.26	3,792.94	2,660.48	1,192.00
Merchandise.....					
Miscellaneous.....	200.01	236.18	248.44	1,057.14	125.00
Total earnings.....	13,950.82	7,714.33	53,219.02	42,953.31	10,808.21
EXPENSES					
Power purchased.....	5,836.65	4,040.43	35,609.63	27,032.53	6,734.90
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	806.06	438.39	1,450.28	2,898.16	550.29
Line transformer maintenance.....			223.43	131.03	
Meter maintenance.....	110.65	19.24	693.94	30.73	281.03
Consumers' premises expenses.....			368.66	664.94	96.77
Street lighting, operation and maintenance.....	229.73	63.71	400.48	719.81	209.65
Promotion of business.....					
Billing and collecting.....		240.53	1,358.50	1,238.13	624.00
General office, salaries and expenses..	754.07	90.88	941.43	1,212.72	79.36
Undistributed expenses.....	46.35		125.99	361.24	19.38
Truck operation and maintenance.....			538.12	308.60	
Interest.....	352.06	234.78		265.78	94.32
Sinking fund and principal payments on debentures.....	1,433.78	945.67		1,336.78	314.36
Depreciation.....	949.00	415.00	1,826.00	1,486.00	516.00
Other reserves.....				2,600.00	
Total operating costs and fixed charges.....	10,518.35	6,488.63	43,536.46	40,286.45	9,520.06
Net surplus.....	3,432.47	1,225.70	9,682.56	2,666.86	1,288.15
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	240	180	832	769	232
Commercial light service.....	92	43	117	156	46
Power service.....	7	1	20	19	7
Total.....	339	224	969	944	285

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1945

Baden P.V.	Barrie 10,469	Bath 296	Beachville P.V.	Beamsville 1,306	Beaverton 786	Beeton 542
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
4,231.28	88,899.53	2,768.95	3,985.18	11,454.17	7,855.51	3,333.11
2,044.72	47,943.47	677.38	568.94	4,640.64	2,630.85	1,857.05
11,404.79	32,277.24		19,136.43	2,293.87	1,265.35	418.80
	1,877.88					
738.00	6,429.75	333.79	463.14	2,087.88	1,197.00	1,320.00
	115.11					5.60
162.23	2,143.33		757.39	563.97	325.60	306.25
18,581.02	179,686.31	3,780.12	24,911.08	21,040.53	13,274.31	7,240.81
14,893.79	90,244.87	1,542.41	19,024.01	11,615.25	8,514.08	2,622.06
	777.43					
	42.66					
403.82	5,897.25	48.88	104.90	512.59	793.59	667.72
17.94	430.97	39.63	4.32	7.65	19.34	
27.62	1,008.85	29.03	12.35		31.21	25.63
69.11	669.88		61.13	313.07	76.66	
166.11	1,582.46	8.80	193.28	252.49	155.40	210.16
	6.75					
315.32	7,134.24	230.83	335.38	832.75	759.69	162.74
130.52	3,121.34	102.18	127.03	375.18	525.49	155.46
17.87	510.09		10.96	16.59	24.20	
	2,552.58					
	188.59	218.66				173.00
	1,835.10	408.94				802.77
666.00	11,476.00	177.00	560.00	1,127.00	1,034.00	551.00
	6.86					
16,708.10	127,485.92	2,806.36	20,433.36	15,052.57	11,933.66	5,370.54
1,872.92	52,200.39	973.76	4,477.72	5,987.96	1,340.65	1,870.27
170	2,550	67	166	416	341	152
32	426	12	21	71	66	33
3	61		4	5	8	4
205	3,037	79	191	492	415	189

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Belle River 845	Belleville	Blenheim	Bloomfield	Blyth
Population.....	845	15,642	1,873	618	632
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	6,454.32	106,469.17	9,907.09	3,217.26	3,876.16
Commercial light service.....	3,442.94	61,602.72	9,432.86	2,219.44	2,030.55
Commercial power service.....	128.28	52,945.84	7,233.48	1,276.04	788.05
Municipal power.....	1,170.35	4,619.83	1,622.48		
Street lighting.....	1,214.04	11,145.20	2,717.00	845.00	1,382.60
Merchandise.....		2,939.90			
Miscellaneous.....	213.45	5,319.07	1,014.80	290.00	310.37
Total earnings.....	12,623.38	245,041.73	31,927.71	7,847.74	8,387.73
EXPENSES					
Power purchased.....	6,003.18	142,317.86	17,609.11	4,326.88	5,436.48
Substation operation.....		2,508.26			
Substation maintenance.....					
Distribution system, operation and maintenance.....	1,176.65	3,904.56	905.22	318.79	744.60
Line transformer maintenance.....	171.06	248.48	460.90	37.62	
Meter maintenance.....	297.12	1,207.16	90.17	114.39	
Consumers' premises expenses.....	27.00	1,713.35	163.48		
Street lighting, operation and main- tenance.....	314.81	1,795.83	798.59	140.12	150.53
Promotion of business.....			124.17		
Billing and collecting.....	987.02	4,054.24	1,905.72	240.72	450.00
General office, salaries and expenses..	417.82	5,756.75	1,453.64	113.74	154.75
Undistributed expenses.....	86.21	2,636.98	7.84		73.63
Truck operation and maintenance.....					
Interest.....			57.32	120.89	13.28
Sinking fund and principal payments on debentures.....			959.75	460.36	
Depreciation.....	725.00	11,453.00	1,661.00	434.00	423.00
Other reserves.....			2,200.00		
Total operating costs and fixed charges.....	10,205.87	177,596.47	28,396.91	6,307.51	7,446.27
Net surplus.....	2,417.51	67,445.26	3,530.80	1,540.23	941.46
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	336	4,028	568	185	186
Commercial light service.....	48	640	144	41	46
Power service.....	4	108	17	7	5
Total.....	388	4,776	729	233	237

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1945

Bolton 609	Bothwell 605	Bowmanville 3,820	Bradford 1,034	Braeside 367	Brampton 6,157	Brantford 34,372
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
4,788.99	2,757.85	32,981.70	7,357.12	1,529.91	50,548.34	185,947.15
1,907.02	2,089.60	11,040.91	4,704.73	333.49	21,114.08	94,151.76
3,331.21	1,010.15	62,684.94	5,266.58	5,497.20	23,684.86	300,452.15
134.05	140.21	.....	400.93	.....	2,534.58	9,575.68
1,130.50	1,225.02	3,919.02	1,306.50	405.00	6,744.47	33,285.16
.....	.....	2,563.33	.....	.....	45.06	.....
405.00	592.50	4,711.15	499.65	.....	1,685.90	13,454.54
11,696.77	7,815.33	117,901.05	19,535.51	7,765.60	106,357.29	636,866.44
6,742.11	4,672.82	66,631.45	8,971.44	6,390.01	73,080.45	467,935.90
.....	.....	17.82	.....	.....	238.99	9,326.09
.....	.....	.....	.....	.....	.....	1,031.88
612.39	255.49	2,902.00	740.97	98.46	4,084.74	11,601.32
.....	.....	125.06	98.07	13.39	125.61	2,472.63
.....	133.62	702.17	258.49	51.88	74.31	8,258.65
161.77	.....	445.75	.....	.....	1,170.95	8,785.07
247.48	64.39	330.87	331.75	50.30	1,487.69	6,056.18
.....	.....	191.90	.....	.....	6.00	159.97
.....	181.43	3,030.21	588.14	297.87	2,807.99	8,746.78
696.08	299.82	3,376.30	445.45	183.98	1,968.61	10,603.82
23.72	1.72	1,299.00	270.26	41.62	242.58	6,074.38
.....	.....	.....	168.93	.....	510.66	2,362.23
.....	21.06	.....	340.50	240.00	.....	.....
.....	342.68	.....	1,356.17	201.48	.....	.....
502.00	472.00	3,341.00	869.00	120.00	4,380.00	27,020.00
.....
8,985.55	6,445.03	82,393.53	14,439.17	7,688.99	90,178.58	570,434.90
2,711.22	1,370.30	35,507.52	5,096.34	76.61	16,178.71	66,431.54
.....
.....
191	190	1,143	294	92	1,659	8,499
45	55	170	76	9	259	1,313
11	9	29	11	2	59	222
247	254	1,342	381	103	1,977	10,034

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Brantford Twp. V.A.	Brechin P.V.	Bridge- port P.V.	Brigden P.V.	Brighton
Population.....					1,581
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	39,878.27	1,446.38	5,208.48	2,181.00	12,056.12
Commercial light service.....	5,768.56	839.94	1,117.90	1,864.03	4,699.42
Commercial power service.....	7,280.95	743.89	1,193.29	940.71	4,344.74
Municipal power.....					
Street lighting.....	4,959.16	476.00	876.00	794.88	2,000.12
Merchandise.....					134.22
Miscellaneous.....	1,076.36		160.70	240.13	519.71
Total earnings.....	58,963.30	3,506.21	8,556.37	6,020.75	23,754.33
EXPENSES					
Power purchased.....	37,097.03	1,514.15	5,224.74	2,977.77	10,913.26
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	3,574.83	322.28	159.05	253.61	2,131.32
Line transformer maintenance.....	709.71		7.65		216.69
Meter maintenance.....	668.32		56.90	8.70	167.39
Consumers' premises expenses.....	656.14		5.40		27.90
Street lighting, operation and main- tenance.....	1,101.31	48.06	67.53	99.30	397.70
Promotion of business.....					
Billing and collecting.....	2,331.05		487.52	465.09	883.14
General office, salaries and expenses..	2,914.81	371.27	53.50	201.25	1,698.61
Undistributed expenses.....	795.23		7.26	9.23	277.07
Truck operation and maintenance...	1,878.41				392.05
Interest.....		117.52			155.53
Sinking fund and principal payments on debentures.....		184.76	1,203.64		1,677.01
Depreciation.....	3,937.00	123.00	441.00	367.00	1,058.00
Other reserves.....					
Total operating costs and fixed charges.....	55,663.84	2,681.04	7,714.19	4,381.95	19,995.67
Net surplus.....	3,299.46	825.17	842.18	1,638.80	3,758.66
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	1,626	58	184	125	576
Commercial light service.....	68	21	21	41	99
Power service.....	7	2	4	4	10
Total.....	1,701	81	209	170	685

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1945

Brockville 11,112	Brussels 730	Burford P.V.	Burgessville P.V.	Burlington* 4,311	Caledonia 1,395	Campbell- ville P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
68,171.22	4,944.31	5,459.42	1,812.01	36,779.44	7,269.92	1,344.88
31,579.60	3,321.78	1,898.23	594.26	18,373.28	5,580.42	500.49
51,473.52	1,409.88	1,609.21	258.78	16,466.34	3,300.59	366.15
8,795.32						
8,614.75	1,305.00	676.93	312.00	2,283.90	1,977.34	400.00
5,783.44	419.57	281.00	105.37		528.71	159.50
174,417.85	11,400.54	9,924.79	3,082.42	73,902.96	18,656.98	2,771.02
113,066.47	5,959.12	6,538.86	1,832.24	39,317.38	10,626.45	1,699.20
6,035.57						
1,202.91						
4,173.78	710.17	745.25	142.25	2,846.11	1,751.70	62.54
341.72				376.47	160.42	
2,256.23	50.71	113.36	27.15	160.04	821.01	
		5.75		978.17	351.38	
1,511.17	136.52	144.11	16.54	532.89	477.08	29.23
3,005.49		582.60		3,550.62	1,314.30	
5,729.17	716.84	289.51	166.26	1,996.88	1,278.43	138.66
1,651.71	57.66	22.09		164.13	158.08	5.66
625.78					401.04	
				2,391.22	6.00	
6,283.00	614.00	424.00	213.00	3,583.00	1,077.00	110.00
145,883.00	8,245.02	8,865.53	2,397.44	55,896.91	18,422.89	2,045.29
28,534.85	3,155.52	1,059.26	684.98	18,006.05	234.09	725.73
3,151	254	237	62	1,278	458	53
407	59	38	17	148	104	11
78	8	5	2	23	13	1
3,636	321	280	81	1,449	575	65

*11 months operation

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Canning- ton 718	Cardinal	Carleton Place 4,217	Cayuga	Chatham
Population.....		1,641		652	17,807
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	5,729.46	9,470.35	23,357.89	4,345.97	105,408.18
Commercial light service.....	2,665.65	2,258.07	10,123.66	3,995.65	113,411.10
Commercial power service.....	1,840.94	270.00	28,850.21	1,780.03	87,314.39
Municipal power.....			1,467.64		6,636.72
Street lighting.....	1,203.52	992.00	4,906.30	1,564.53	20,468.12
Merchandise.....					579.34
Miscellaneous.....	185.25	201.25	1,565.98	218.52	7,287.18
Total earnings.....	11,624.82	13,191.67	70,271.68	11,904.70	341,105.03
EXPENSES					
Power purchased.....	6,194.20	8,056.54	40,552.86	5,958.44	181,238.91
Substation operation.....			83.49		9,766.00
Substation maintenance.....					5,741.07
Distribution system, operation and maintenance.....	497.58	849.68	2,483.57	398.33	14,395.88
Line transformer maintenance.....		23.10	106.78	114.05	1,674.66
Meter maintenance.....	18.80	62.40	423.76	156.12	7,604.29
Consumers' premises expenses.....	79.10		177.51		5,119.24
Street lighting, operation and main- tenance.....	128.77	130.93	643.17	232.75	6,520.46
Promotion of business.....			5.36		
Billing and collecting.....	567.44	685.66	1,888.50	711.77	12,638.07
General office, salaries and expenses..	503.59	198.18	3,853.12	542.17	18,624.85
Undistributed expenses.....		56.64	525.40	284.75	5,961.74
Truck operation and maintenance...			266.57		3,754.68
Interest.....		283.03	604.16	18.71	3,966.51
Sinking fund and principal payments on debentures.....		898.18	2,301.80		10,597.14
Depreciation.....	720.00	612.00	3,150.00	629.00	22,310.00
Other reserves.....					14,000.00
Total operating costs and fixed charges.....	8,709.48	11,856.34	57,066.05	9,046.09	323,913.50
Net surplus.....	2,915.34	1,335.33	13,205.63	2,858.61	17,191.53
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	273	396	1,098	186	4,648
Commercial light service.....	61	54	181	68	822
Power service.....	9	2	18	8	120
Total.....	343	452	1,297	262	5,590

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1945

Chatsworth	Chesley	Chesterville	Chippawa	Clifford	Clinton	Cobden
323	1,550	1,050	1,251	436	2,037	637
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,376.21	10,209.85	5,499.67	8,429.97	2,905.59	14,254.13	2,897.23
1,351.71	5,918.45	4,048.94	2,196.58	1,853.83	8,298.01	2,284.56
.....	6,677.56	3,236.52	.....	643.68	4,718.78	2,264.21
.....	864.54	.....	1,032.08	.....	1,613.84	.....
546.00	2,327.04	1,131.00	1,973.10	968.04	2,791.00	703.00
.....	86.62	279.04	.....	.....	1,067.06	.....
89.36	259.00	559.50	353.55	152.14	1,278.21	74.46
4,363.28	26,343.06	14,754.67	13,985.28	6,523.28	34,021.03	8,223.46
2,832.57	14,986.20	7,834.76	6,979.58	3,980.35	19,319.98	4,430.24
.....	.....	.....	.....	.....	100.00	.....
355.30	718.72	1,425.12	835.43	450.34	1,568.70	341.82
.....	96.75	37.84	179.44	.....	223.50	.....
70.30	154.35	252.87	541.07	74.30	188.93	39.86
.....	117.19	.....	312.26	.....	171.93	.....
74.00	253.75	81.78	648.23	136.86	327.73	159.84
.....	.....	.....	40.00	.....	.....	.....
.....	610.13	566.47	926.48	287.69	1,214.71	481.31
288.04	537.70	514.70	719.62	106.27	2,388.42	111.92
17.11	70.03	.....	160.58	22.49	139.69	.....
.....	83.68	.....	219.67	.....	363.35	.....
.....	.....	.....	.....	233.66	.....	128.58
.....	.....	.....	.....	322.24	.....	773.28
245.00	1,109.00	485.00	1,049.00	276.00	1,583.00	203.00
.....
3,882.32	18,737.50	11,198.54	12,611.36	5,890.20	27,589.94	6,669.85
480.96	7,605.56	3,556.13	1,373.92	633.08	6,431.09	1,553.61
.....
.....
113	460	258	363	140	599	168
26	96	68	51	31	125	48
.....	22	4	1	2	19	3
139	578	330	415	173	743	219

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Cobourg	Colborne	Coldwater	Colling- wood	Comber
Population.....	5,022	872	580	6,318	P.V.
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	40,346.96	7,533.89	4,068.81	36,454.92	2,193.78
Commercial light service.....	21,930.06	4,631.55	1,851.56	15,782.93	1,732.88
Commercial power service.....	28,058.22	975.83	3,448.86	37,949.85	2,265.25
Municipal power.....	1,920.48	213.26		1,660.99	
Street lighting.....	5,824.33	1,524.00	813.00	3,974.25	738.00
Merchandise.....	105.28	30.77		6.00	
Miscellaneous.....	1,930.56	162.49	73.81	1,428.70	337.06
Total earnings.....	100,115.89	15,071.79	10,256.04	97,257.64	7,266.97
EXPENSES					
Power purchased.....	51,500.20	6,430.67	5,750.82	56,546.09	5,314.59
Substation operation.....				221.00	
Substation maintenance.....					
Distribution system, operation and maintenance.....	3,930.64	1,619.90	455.67	3,264.52	297.51
Line transformer maintenance.....	390.31			225.90	
Meter maintenance.....	878.48	202.12	78.00	821.71	49.98
Consumers' premises expenses.....	413.51	484.07	126.90	44.48	
Street lighting, operation and main- tenance.....	1,628.86	223.34	123.57	170.32	90.80
Promotion of business.....					
Billing and collecting.....	4,219.65	1,251.69	649.38	2,756.90	274.99
General office, salaries and expenses..	3,740.51	1,058.75	181.42	1,047.23	226.98
Undistributed expenses.....	1,066.51	127.22		619.47	21.33
Truck operation and maintenance...	419.54	230.25		208.52	
Interest.....	1,463.38	389.84			
Sinking fund and principal payments on debentures.....	5,812.38	774.07			
Depreciation.....	5,680.00	533.00	585.00	3,955.00	434.00
Other reserves.....					
Total operating costs and fixed charges.....	81,143.97	13,324.92	7,950.76	69,881.14	6,710.18
Net surplus.....	18,971.92	1,746.87	2,305.28	27,376.50	556.79
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	1,486	284	160	1,666	120
Commercial light service.....	250	71	48	208	42
Power service.....	50	6	3	48	4
Total.....	1,786	361	211	1,922	166

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1945

Cookstown	Cottam	Courtright	Creemore	Dashwood	Delaware	Delhi
P.V.	P.V.	357	661	P.V.	P.V.	2,063
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,576.00	2,691.52	1,692.48	3,628.72	2,371.14	2,253.48	14,193.92
1,288.76	1,374.83	730.79	2,016.26	1,246.62	773.71	11,818.58
1,526.76	595.56	.....	1,230.06	1,341.24	.....	6,926.89
.....	.....	974.64	.....	.....	.....	.....
855.00	480.00	645.00	723.36	505.98	277.00	2,753.16
.....	.....	.....	.....	.....	.....	272.85
272.98	263.25	207.07	184.39	234.27	64.45	1,001.65
6,519.50	5,405.16	4,249.98	7,782.79	5,699.25	3,368.64	36,967.05
2,831.86	3,043.79	1,885.83	4,831.57	3,834.82	2,053.10	18,064.40
.....
190.76	511.62	164.31	1,099.99	163.80	184.08	1,753.24
.....	24.30	.....	.....	.....	.....	124.06
27.73	70.05	0.94	16.50	18.27	.....	605.65
.....	.....	.....	72.59	.....	17.03	318.12
46.00	72.75	99.14	157.93	35.92	14.76	393.18
.....	.....	.....	.....	.....	.....	5.25
307.87	575.46	194.30	310.90	270.09	225.16	1,903.78
100.10	76.02	46.70	90.20	65.25	49.00	1,444.30
1.71	8.33	5.97	.....	1.36	.....	408.20
.....	.....	.....	.....	.....	.....	342.02
125.24	76.48	.....	.....	24.50	12.41	2,607.62
602.24	676.65	.....	.....	210.20	248.30	3,554.37
468.00	594.00	198.00	368.00	215.00	227.00	1,841.00
.....	.....	.....	.....	.....	.....	1,500.00
4,701.51	5,729.45	2,595.19	6,947.68	4,839.21	3,030.84	34,865.19
1,817.99	.....	1,654.79	835.11	860.04	337.80	2,101.86
.....	324.29	.....	.....	.....	.....	.....
124	139	98	181	105	67	635
31	29	21	53	28	15	159
4	5	1	3	3	.....	9
159	173	120	237	136	82	803

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Deseronto	Dorchester	Drayton	Dresden	Drumbo
Population.....	1,100	P.V.	518	1,532	P.V.
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	9,367.25	3,014.36	3,970.14	8,314.57	2,642.30
Commercial light service.....	4,005.52	979.66	2,396.71	6,681.57	1,106.43
Commercial power service.....	1,227.34	563.78	1,332.54	5,725.33	724.89
Municipal power.....	876.28			674.90	
Street lighting.....	1,668.00	750.00	960.00	2,220.36	522.17
Merchandise.....	397.11			978.42	
Miscellaneous.....	266.49	150.58	235.00	327.50	162.25
Total earnings.....	17,807.99	5,458.38	8,894.39	24,922.65	5,158.04
EXPENSES					
Power purchased.....	6,943.95	3,470.18	5,128.74	13,660.00	2,879.92
Substation operation.....	113.35				
Substation maintenance.....					
Distribution system, operation and maintenance.....	1,179.87	78.89	251.37	1,922.71	200.45
Line transformer maintenance.....	15.32			115.54	
Meter maintenance.....	26.32	115.30	64.49	153.13	47.01
Consumers' premises expenses.....		9.82		460.56	
Street lighting, operation and maintenance.....	268.21	44.22	178.16	408.48	100.41
Promotion of business.....					
Billing and collecting.....	886.15	218.15		1,180.56	354.15
General office, salaries and expenses..	683.21	53.71	563.82	721.63	61.58
Undistributed expenses.....	197.86		14.95	131.61	
Truck operation and maintenance.....	631.79			223.66	
Interest.....		18.54	110.69		
Sinking fund and principal payments on debentures.....		263.92	579.47		
Depreciation.....	626.00	334.42	526.00	1,120.00	288.00
Other reserves.....					
Total operating costs and fixed charges.....	11,572.03	4,607.15	7,417.69	20,097.88	3,931.52
Net surplus.....	6,235.96	851.23	1,476.70	4,824.77	1,226.52
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	403	161	173	493	94
Commercial light service.....	77	28	61	130	29
Power service.....	8	1	4	16	1
Total.....	488	190	238	639	124

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1945

Dublin P.V.	Dundalk 650	Dundas 5,588	Dunnville 4,305	Durham 1,957	Dutton 791	East York Twp. V.A.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,531.92	4,257.55	28,845.55	15,874.40	8,349.63	3,389.28	290,562.69
1,122.85	3,384.27	17,270.77	14,468.81	5,147.78	2,646.41	31,258.20
1,508.51	3,306.47	42,231.78	17,560.23	3,973.47	3,788.01	44,339.00
.....	.....	647.65	2,599.08	660.21	.....	4,733.77
550.00	1,199.00	5,776.08	3,776.33	1,616.04	1,034.19	24,785.63
64.90	261.25	811.35	1,525.17	448.97	374.76	146.76
4,778.18	12,408.54	95,583.18	55,804.02	20,196.10	11,232.65	395,826.05
2,762.00	6,153.32	66,661.89	36,354.45	10,562.34	7,692.17	199,839.03
.....	.....	716.15	476.98	.....	.....	2,119.07
39.87	1,277.22	6,190.70	3,450.83	1,383.11	324.79	13,243.37
.....	.....	758.38	260.70	206.24	8.10	505.80
14.25	159.36	2,306.76	526.82	161.09	23.34	5,083.72
.....	.....	289.58	.....	67.59	20.51	5,932.37
146.40	217.86	1,276.56	1,300.97	400.72	150.40	3,306.79
.....	.....	.....	3.00	3.59	.....	.....
.....	.....	1,744.05	1,504.95	1,000.37	511.00	18,332.09
416.45	818.70	2,452.27	1,526.74	770.19	164.73	15,133.93
11.08	38.72	901.25	281.79	105.31	19.74	1,696.85
.....	.....	869.35	339.16	383.76	.....	.....
.....	.....	.....	653.08	.....	.....	2,032.75
.....	.....	.....	4,105.41	.....	.....	25,526.98
292.00	452.00	4,208.00	3,010.00	1,034.00	538.00	24,198.00
3,682.05	9,117.18	88,374.94	53,794.88	16,078.31	9,452.78	316,950.75
1,096.13	3,291.36	7,208.24	2,009.14	4,117.79	1,779.87	78,875.30
62	209	1,472	1,082	477	240	12,330
26	73	200	226	104	65	523
2	6	39	28	12	11	45
90	288	1,711	1,336	593	316	12,898

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Elmira	Elmvale	Elmwood	Elora	Embro
Population.....	2,186	P.V.	P.V.	1,167	445
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	15,514.94	3,751.98	1,302.51	8,871.07	4,262.97
Commercial light service.....	9,513.28	1,703.86	699.95	4,734.72	891.94
Commercial power service.....	22,358.04	3,303.97	1,306.57	4,974.52	295.08
Municipal power.....	3,044.53	256.87			
Street lighting.....	2,031.00	634.32	437.63	1,504.09	636.00
Merchandise.....					
Miscellaneous.....	1,438.44	284.04	136.42	645.77	107.08
Total earnings.....	53,900.23	9,935.04	3,883.08	20,730.17	6,193.07
EXPENSES					
Power purchased.....	34,376.90	4,756.81	2,389.56	12,949.57	3,501.71
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	1,903.45	384.62	202.72	2,230.41	190.70
Line transformer maintenance.....					
Meter maintenance.....	46.78	68.25	5.60	106.70	25.60
Consumers' premises expenses.....	346.66	153.02		113.63	4.40
Street lighting, operation and maintenance.....	369.30	237.11	78.76	278.38	170.57
Promotion of business.....	3.00			52.42	
Billing and collecting.....	1,324.81	603.09		969.87	338.38
General office, salaries and expenses.....	1,535.19	236.86	295.06	494.49	54.48
Undistributed expenses.....	331.71			244.54	
Truck operation and maintenance.....	187.56			245.84	
Interest.....	163.90				
Sinking fund and principal payments on debentures.....					
Depreciation.....	1,990.00	583.00	216.00	1,014.00	432.00
Other reserves.....					
Total operating costs and fixed charges.....	42,579.26	7,022.76	3,187.70	18,699.85	4,717.84
Net surplus.....	11,320.97	2,912.28	695.38	2,030.32	1,475.23
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	568	198	75	361	147
Commercial light service.....	126	50	24	66	29
Power service.....	26	8	1	4	2
Total.....	720	256	100	431	178

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1945

Erieau 228	Erie Beach 23	Essex 1,986	Etobicoke Twp. V.A.	Exeter 1,794	Fergus 2,624
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
4,696.73	1,450.14	9,821.36	238,581.94	15,831.36	19,659.68
1,709.21	252.01	9,781.08	32,129.58	8,886.98	8,752.76
4,157.67		6,127.31	38,621.07	4,876.26	18,891.56
		1,236.07	7,538.88	675.33	856.69
504.00		2,377.68	15,098.27	2,824.02	2,283.60
				432.04	43.03
12.50	45.00	1,040.80	1,922.44	818.85	1,048.32
11,080.11	1,747.15	30,384.30	333,892.18	34,344.84	51,535.64
6,117.91	782.42	15,798.07	201,194.27	21,440.44	34,877.50
204.72	183.17	1,381.53	11,468.78	1,641.11	4,600.36
32.89	5.91	48.50	1,323.55	18.08	295.96
24.30	18.86	309.95	2,271.42	56.39	876.85
18.01			9,328.32	229.68	387.64
36.27		368.14	1,615.73	460.43	573.92
		66.78			
511.48	134.20	1,652.06	13,219.92	1,398.84	1,342.22
415.36	198.04	1,994.84	9,386.14	2,364.70	1,319.25
2.18	0.41	420.04	3,809.85	46.03	172.12
		369.53	1,548.56	170.27	774.87
	31.90	641.80	2,698.13		131.11
	256.03	906.32	11,596.78		831.80
398.00	133.00	1,699.00	19,380.00	1,388.00	2,525.00
10.00		2,000.00		2,000.00	
7,771.12	1,743.94	27,656.56	288,841.45	31,213.97	48,708.60
3,308.99	3.21	2,727.74	45,050.73	3,130.87	2,827.04
208	81	539	6,644	548	770
14	3	125	338	124	120
4		18	46	15	14
226	84	682	7,028	687	904

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Finch	Flesherton	Fonthill	Forest	ForestHill
Population.....	393	341	1,009	1,573	13,484
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	2,774.23	2,218.09	6,891.57	14,895.03	202,577.38
Commercial light service.....	2,025.48	1,763.04	1,956.31	8,373.37	29,847.52
Commercial power service.....	231.50	677.36	482.84	5,616.75	2,913.69
Municipal power.....			172.17	1,388.17	410.02
Street lighting.....	507.00	631.00	1,285.98	2,451.57	8,947.29
Merchandise.....				34.53	
Miscellaneous.....	204.83	264.93	110.33	1,168.25	7,717.86
Total earnings.....	5,743.04	5,554.42	10,899.20	33,927.67	252,413.76
EXPENSES					
Power purchased.....	3,268.42	2,313.42	4,739.33	20,570.25	142,781.07
Substation operation.....					255.64
Substation maintenance.....					
Distribution system, operation and maintenance.....	145.11	339.47	482.26	3,832.88	6,151.32
Line transformer maintenance.....			2.00	35.25	173.94
Meter maintenance.....	23.60	210.34	272.69	243.60	1,614.55
Consumers' premises expenses.....	36.85		3.03	169.95	6,410.05
Street lighting, operation and maintenance.....	177.98	85.73	180.07	532.63	638.11
Promotion of business.....					
Billing and collecting.....	236.26		776.34	1,007.60	6,081.09
General office, salaries and expenses..	76.96	405.76	294.25	988.14	7,336.96
Undistributed expenses.....			2.91	247.95	878.28
Truck operation and maintenance.....				131.28	1,177.52
Interest.....	170.17	27.24	132.07		9,431.73
Sinking fund and principal payments on debentures.....	512.41	340.73	1,503.64		16,725.04
Depreciation.....	396.00	303.00	799.00	1,395.00	16,043.00
Other reserves.....					
Total operating costs and fixed charges.....	5,043.76	4,025.69	9,187.59	29,154.53	215,698.30
Net surplus.....	699.28	1,528.73	1,711.61	4,773.14	36,715.46
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	120	127	316	530	3,728
Commercial light service.....	43	44	37	143	254
Power service.....	1	2	5	21	27
Total.....	164	173	358	694	4,009

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1945

Galt	Georgetown	Glencoe	Goderich	Grand Valley	Granton
14,693	2,448	752	4,987	576	P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
117,755.17	23,719.53	4,509.79	35,861.24	3,375.71	2,098.07
67,359.36	9,435.04	4,229.56	17,844.67	2,025.90	1,071.83
161,925.02	39,213.59	1,816.99	18,948.54	2,717.32	.....
4,806.29	611.74	1,504.79	2,894.83	.....	.....
17,416.50	2,821.73	2,170.80	4,760.00	780.00	376.40
1,364.41	.....	.....	203.01	.....	.....
3,202.06	885.28	643.78	1,838.70	309.37	190.45
373,828.81	76,686.91	14,875.71	82,350.99	9,208.30	3,736.75
249,149.09	54,334.69	7,645.73	49,638.83	5,591.37	2,289.89
6,450.17	.....	.....	2,266.03	.....	.....
2,899.69	.....	.....	.....	.....	.....
5,956.36	2,108.30	1,168.75	2,635.97	357.02	83.96
322.76	517.86	68.97	170.29	.....	.....
2,279.03	1,505.24	193.14	729.90	75.76	8.13
2,649.43	.....	73.13	187.12	.....	0.63
2,992.71	633.70	237.83	600.12	163.06	39.92
91.29	.....	.....	.....	.....	.....
3,991.45	2,300.47	528.80	2,717.81	.....	317.87
14,974.76	1,453.91	903.68	2,023.33	760.47	79.62
5,354.26	246.20	65.02	283.88	18.48	0.91
641.26	624.31	.....	291.97	.....	.....
.....	.....	.....	977.77	.....	14.64
.....	.....	.....	2,003.19	.....	240.58
22,438.00	3,076.00	928.00	5,220.00	572.00	211.00
.....
320,190.26	66,800.68	11,813.05	69,746.21	7,538.16	3,287.15
53,638.55	9,886.23	3,062.66	12,604.78	1,670.14	449.60
.....
4,356	849	244	1,376	189	85
501	129	77	263	53	26
123	26	11	23	7	.....
4,980	1,004	332	1,662	249	111

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Gravenhurst	Grimsby	Guelph	Hagersville
Population.....	2,405	1,993	23,225	1,588
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	12,587.89	18,773.68	130,221.34	8,259.63
Commercial light service.....	13,069.58	13,121.74	59,920.86	6,986.42
Commercial power service.....	16,847.51	11,106.66	138,371.61	17,735.29
Municipal power.....	811.83	2,520.37	16,080.44	.....
Street lighting.....	2,144.96	3,484.54	20,472.18	2,155.32
Merchandise.....	111.75	.....	.....	.....
Miscellaneous.....	560.01	706.98	2,581.53	1,236.41
Total earnings.....	46,133.53	49,713.97	367,647.96	36,373.07
EXPENSES				
Power purchased.....	30,745.57	23,135.42	267,244.30	27,159.91
Substation operation.....	11.00	.....	.....	.....
Substation maintenance.....	.....	.....	3,799.91	.....
Distribution system, operation and maintenance.....	4,052.08	1,430.66	8,567.00	2,239.37
Line transformer maintenance.....	264.70	.....	276.03	208.06
Meter maintenance.....	384.67	78.14	4,859.28	440.40
Consumers' premises expenses.....	320.72	365.95	204.05	1.85
Street lighting, operation and maintenance.....	346.74	561.85	4,197.02	376.02
Promotion of business.....	.....	.....	520.59	.....
Billing and collecting.....	1,166.24	2,639.30	7,540.59	977.44
General office, salaries and expenses.....	928.79	1,158.44	9,899.86	706.44
Undistributed expenses.....	432.98	39.02	2,087.32	280.89
Truck operation and maintenance.....	235.56	.....	.....	195.90
Interest.....	.....	1,110.27	.....	.....
Sinking fund and principal payments on debentures.....	.....	3,223.86	.....	.....
Depreciation.....	2,072.00	1,959.00	24,161.00	1,039.00
Other reserves.....	.....	.....	.....	.....
Total operating costs and fixed charges.....	40,961.05	35,701.91	333,356.95	33,625.28
Net surplus.....	5,172.48	14,012.06	34,291.01	2,747.79
Net loss.....	.....	.....	.....	.....
NUMBER OF CONSUMERS				
Domestic service.....	619	675	5,759	424
Commercial light service.....	108	126	806	120
Power service.....	16	17	153	18
Total.....	743	818	6,718	562

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1945

Hamilton	Hanover	Harriston	Harrow	Hastings	Havelock	Hensall
174,222	3,165	1,242	1,122	698	876	601
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
989,413.53	22,637.91	8,743.58	13,101.73	4,724.59	4,769.94	4,789.19
569,569.55	9,919.20	5,962.22	6,398.53	2,651.68	2,133.18	2,368.71
2,749,875.25	22,300.63	6,864.82	4,585.42	192.09	2,112.00	2,813.30
88,735.25	268.54	384.54				
127,189.53	2,191.18	1,618.50	1,336.50	1,320.95	1,524.00	1,008.00
	46.02		118.84			
132,321.74	1,981.88	320.59	190.75	285.87	627.54	427.80
4,657,104.85	59,345.36	23,894.25	25,731.77	9,175.18	11,166.66	11,407.00
3,315,834.98	30,246.64	15,165.51	18,323.13	5,132.36	6,096.47	6,814.18
81,360.99						
13,172.99						
44,208.53	2,793.82	1,569.27	1,379.89	673.86	871.56	639.96
8,493.24	245.19	15.55	170.66	35.91	48.95	
32,493.25	581.40	242.78	46.58	54.06	44.23	18.00
38,161.81	15.08	100.20	119.81			
22,358.07	324.29	219.07	427.85	214.25	135.77	90.00
12,816.23		255.03	4.00			
83,144.83	1,690.23	916.17	1,065.13	542.16	789.00	389.80
60,324.20	1,445.84	336.95	156.15	324.62	335.52	325.24
45,772.97	367.22	81.69	5.65	7.94		47.14
	455.49	193.41			252.35	
19,463.21		106.70		550.26		70.00
210,583.33		495.12		1,208.01		618.05
182,601.80	3,372.00	938.00	1,401.00	806.00	789.00	610.00
46,544.92	8,000.00					
4,217,335.35	49,537.20	20,635.45	23,099.85	9,549.43	9,362.85	9,622.37
439,769.50	9,808.16	3,258.80	2,631.92		1,803.81	1,784.63
				374.25		
44,209	861	395	360	249	300	213
5,565	138	96	89	55	52	54
1,078	22	14	8	3	3	15
50,852	1,021	505	457	307	355	282

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Hespeler	Highgate	Holstein	Humberstone	Huntsville
Population.....	3,021	301	P.V.	3,287	2,810
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	18,518.05	1,946.71	1,095.65	12,342.97	17,529.94
Commercial light service.....	7,340.60	850.87	369.62	4,872.97	12,887.76
Commercial power service.....	57,214.41	1,270.95	484.23	6,932.72	14,134.35
Municipal power.....	1,173.13				1,468.67
Street lighting.....	2,986.96	551.69	345.00	1,568.50	2,774.00
Merchandise.....					282.79
Miscellaneous.....	1,905.49	193.05	159.75	1,001.62	373.06
Total earnings.....	89,138.64	4,813.27	2,454.25	26,718.78	49,450.47
EXPENSES					
Power purchased.....	65,005.18	3,038.56	755.90	13,504.54	34,603.67
Substation operation.....					
Substation maintenance.....	433.33				
Distribution system, operation and maintenance.....	4,037.51	64.43	88.63	1,120.92	2,101.73
Line transformer maintenance.....	82.30			28.02	40.78
Meter maintenance.....	493.98		166.64	336.51	402.80
Consumers' premises expenses.....	120.07				34.70
Street lighting, operation and maintenance.....	665.77	12.01	24.00	327.35	582.70
Promotion of business.....					
Billing and collecting.....	1,107.08	317.07		1,289.25	1,500.53
General office, salaries and expenses..	1,368.00	157.58	197.72	620.32	2,035.20
Undistributed expenses.....	791.51	17.76		201.55	1,741.51
Truck operation and maintenance...	240.94			159.91	382.56
Interest.....	509.11				
Sinking fund and principal payments on debentures.....	1,496.96				
Depreciation.....	3,853.00	342.00	116.00	1,507.00	1,200.00
Other reserves.....					
Total operating costs and fixed charges.....	80,204.74	3,949.41	1,348.89	19,095.37	44,626.18
Net surplus.....	8,933.90	863.86	1,105.36	7,623.41	4,824.29
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	827	108	63	753	726
Commercial light service.....	90	32	12	79	133
Power service.....	29	5	2	12	19
Total.....	946	145	77	844	878

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1945

Ingersoll	Iroquois	Jarvis	Kemptville	Kincardine	Kingston
5,823	925	557	1,158	2,189	32,463
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
35,725.02	7,270.60	2,923.81	8,704.85	15,664.70	204,378.27
20,389.70	3,327.42	1,998.27	6,204.29	8,712.46	136,129.99
44,940.37	761.86	3,870.55	3,289.66	12,365.32	163,843.93
1,976.92	1,072.30			1,410.86	16,358.93
4,809.67	906.00	858.00	1,786.00	4,218.58	22,019.05
623.59	980.26		254.42	29.21	
1,310.93	185.25	442.77	746.45	828.60	10,883.25
109,776.20	14,503.69	10,093.40	20,985.67	43,229.73	553,613.42
78,152.65	6,609.50	6,079.50	10,153.23	22,348.62	300,623.18
184.30				456.55	7,563.86
					2,069.65
4,150.91	807.41	97.57	1,903.31	2,543.30	11,281.33
299.88	64.11	17.20	16.83	325.65	1,190.15
2,068.41	174.43	75.05	586.98	273.04	5,469.28
1,443.32				167.66	2,453.35
991.32	209.13	46.47	177.68	1,533.49	5,772.69
					179.11
2,504.56	694.39	722.55	1,060.36	1,442.22	9,079.32
4,321.18	187.79	76.13	524.94	909.00	21,087.98
1,378.05	97.96	2.86	103.73	199.18	9,209.87
283.40	239.16		136.37		4,855.42
		12.02			1,053.12
					3,074.00
5,488.00	519.00	408.00	911.00	2,106.00	24,943.00
					5,907.97
101,265.98	9,602.88	7,537.35	15,574.43	32,304.71	415,813.28
8,510.22	4,900.81	2,556.05	5,411.24	10,925.02	137,800.14
1,568	318	163	391	755	8,023
227	63	41	85	131	1,093
45	5	2	6	18	180
1,840	386	206	482	904	9,296

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Kingsville	Kirkfield	Kitchener	Lakefield
Population.....	2,335	P.V.	36,165	1,327
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	15,624.96	912.16	246,982.51	7,866.62
Commercial light service.....	10,714.73	1,107.92	147,553.68	5,035.85
Commercial power service.....	5,030.02		426,064.64	7,755.76
Municipal power.....	1,025.42		39,026.81	
Street lighting.....	2,751.00	432.00	33,624.38	1,710.00
Merchandise.....				
Miscellaneous.....	1,519.89	66.00	9,680.49	592.51
Total earnings.....	36,666.02	2,518.08	902,932.51	22,960.74
EXPENSES				
Power purchased.....	19,645.52	843.42	612,704.09	9,180.51
Substation operation.....			12,920.19	
Substation maintenance.....			3,689.83	
Distribution system, operation and maintenance.....	2,464.34	212.13	18,938.58	966.85
Line transformer maintenance.....	261.43		2,292.46	
Meter maintenance.....	818.65		9,544.92	232.95
Consumers' premises expenses.....	3.60		5,319.00	
Street lighting, operation and maintenance.....	687.81	43.96	10,290.54	157.34
Promotion of business.....	26.88		37.60	
Billing and collecting.....	2,377.49		14,954.24	595.69
General office, salaries and expenses.....	1,501.76	234.83	16,145.98	939.68
Undistributed expenses.....	562.07		903.01	75.10
Truck operation and maintenance.....	342.70			142.37
Interest.....	1,074.74		4,092.64	807.23
Sinking fund and principal payments on debentures.....	1,358.99		22,100.00	1,758.13
Depreciation.....	1,863.00	206.00	54,458.00	1,015.00
Other reserves.....	1,500.00			
Total operating costs and fixed charges.....	34,488.98	1,540.34	788,391.08	15,870.85
Net surplus.....	2,177.04	977.74	114,541.43	7,089.89
Net loss.....				
NUMBER OF CONSUMERS				
Domestic service.....	650	40	8,964	380
Commercial light service.....	164	20	1,087	68
Power service.....	24		285	10
Total.....	838	60	10,336	458

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1945

Lambeth P.V.	Lanark 670	Lancaster 518	La Salle 1,020	Leamington 5,456	Lindsay 7,680	Listowel 3,209
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3,681.65	3,323.73	1,916.21	10,326.06	30,070.99	51,176.92	18,533.71
939.88	1,975.37	1,079.09	1,833.95	20,899.77	31,246.35	11,797.44
267.02	477.09		428.10	25,612.22	52,141.43	19,519.59
437.24				2,125.29	3,061.49	1,041.96
763.00	578.50	512.00	804.00	6,098.66	6,483.86	4,575.00
						118.70
143.09	31.98	46.67	164.18	2,315.49	3,044.01	1,031.64
6,231.88	6,386.67	3,553.97	13,556.29	87,122.42	147,154.06	56,618.04
4,209.53	3,672.88	2,002.19	8,472.68	58,214.62	85,812.52	42,442.99
				414.44		682.95
225.37	75.03	157.46	391.53	2,122.97	1,412.57	1,982.24
			20.00	308.76	813.56	214.19
261.10	114.88	73.06		996.40	1,459.67	622.43
			41.29	4.70	768.66	160.43
104.76	49.77	44.84	113.49	967.73	1,908.65	904.67
			10.66	135.62		
370.33		223.54	756.28	2,924.96	4,716.22	1,505.55
38.98	483.44	131.66	252.68	3,441.07	6,785.50	1,056.91
			16.84	819.90	1,918.64	221.33
				383.74	972.88	331.16
					1,539.70	
					8,582.06	
380.00	494.00	403.00	854.00	3,271.00	6,445.00	2,805.00
				4,300.00		
5,590.07	4,890.00	3,035.75	10,929.45	78,305.91	123,135.63	52,929.85
641.81	1,496.67	518.22	2,626.84	8,816.51	24,018.43	3,688.19
144	185	121	288	1,722	2,318	819
28	39	30	15	299	361	164
4	2		3	37	70	27
176	226	151	306	2,058	2,749	1,010

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	London	London Twp. V.A.	Long Branch	Lucan	Lucknow
Population.....	81,158		5,253	583	932
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	596,268.51	17,549.00	36,283.32	4,811.11	5,574.93
Commercial light service.....	233,849.96	2,098.70	6,681.45	2,487.53	3,695.38
Commercial power service.....	452,714.10	1,763.54	10,861.80	1,273.38	9,985.64
Municipal power.....	98,106.97		2,438.12		448.77
Street lighting.....	55,562.59	1,207.87	4,620.11	1,381.67	1,546.00
Merchandise.....	530.26				
Miscellaneous.....	49,493.63	38.54	1,363.96	261.08	172.52
Total earnings.....	1,486,526.02	22,657.65	62,248.76	10,214.77	21,423.24
EXPENSES					
Power purchased.....	935,753.36	14,084.99	34,220.19	5,645.59	10,271.52
Substation operation.....	14,663.34				
Substation maintenance.....	23,107.60				
Distribution system, operation and maintenance.....	16,267.24	678.82	3,349.61	221.04	992.65
Line transformer maintenance.....	7,235.02		103.16		
Meter maintenance.....	16,502.23	55.27	635.12	8.30	112.04
Consumers' premises expenses.....	23,290.50	396.78	316.98	177.53	
Street lighting, operation and main- tenance.....	10,070.47	127.77	795.54	285.78	171.67
Promotion of business.....	2,165.83				
Billing and collecting.....	26,448.95	1,498.37	3,883.76	535.88	
General office, salaries and expenses..	53,302.63	434.40	2,783.88	614.19	1,569.02
Undistributed expenses.....	36,866.86	5.13	983.00	66.48	
Truck operation and maintenance....	5,033.19				
Interest.....	1,926.34	55.59	140.73	23.31	
Sinking fund and principal payments on debentures.....	4,502.52	381.24	1,536.73	464.58	
Depreciation.....	88,237.05	845.00	3,432.00	594.00	1,061.00
Other reserves.....	135,128.12				
Total operating costs and fixed charges.....	1,400,501.25	18,563.36	52,180.70	8,636.68	14,177.90
Net surplus.....	86,024.77	4,094.29	10,068.06	1,578.09	7,245.34
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	20,979	502	1,618	194	293
Commercial light service.....	2,365	16	111	52	83
Power service.....	447	5	10	6	9
Total.....	23,791	523	1,739	252	385

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1945

Lynden P.V.	Madoc 1,094	Markdale 700	Markham 1,210	Marmora 938	Martintown P.V.	Maxville 801
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,914.29	5,756.93	3,429.42	9,395.64	4,873.81	972.76	3,158.58
772.25	4,094.63	3,324.83	3,127.77	2,358.04	1,239.79	2,429.07
767.53	1,846.15	1,802.97	3,126.82	205.82		
		192.07	334.92			
465.96	1,448.32	959.00	1,293.50	1,298.00	176.00	1,044.51
				79.70		
128.09	349.26	310.75	576.51	245.45	100.55	255.06
5,048.12	13,495.29	10,019.04	17,855.16	9,060.82	2,489.10	6,887.22
3,322.84	7,224.92	4,929.06	9,895.27	4,463.36	1,332.84	3,862.57
55.24	915.03	425.87	1,053.41	771.64	105.98	495.13
			3.75			10.10
2.81	183.68	113.72	16.25	340.33	30.98	226.85
35.30						17.50
82.48	328.32	70.12	167.04	225.37	75.68	266.30
	609.70		903.02	926.40	168.62	345.47
239.21	391.46	847.96	220.96	537.66	33.94	54.21
	21.25	16.79	33.66	60.30		28.87
15.79		37.01				
293.49		616.83				
251.00	579.00	576.00	1,202.00	446.00	131.00	431.00
4,298.16	10,253.36	7,633.36	13,495.36	7,771.06	1,879.04	5,738.00
749.96	3,241.93	2,385.68	4,359.80	1,289.76	610.06	1,149.22
101	322	242	354	258	59	181
15	89	76	61	39	24	46
2	6	8	9	1		
118	417	326	424	298	83	227

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Meaford	Merlin	Merritton	Midland	Mildmay
Population.....	2,671	P.V.	3,450	6,636	725
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	15,518.41	2,191.85	20,727.10	41,158.39	4,340.38
Commercial light service.....	9,842.69	1,943.35	5,000.12	20,438.38	2,832.13
Commercial power service.....	11,016.55	1,416.09	218,837.63	82,001.57	1,099.20
Municipal power.....	1,025.78	.....	1,903.86	2,820.15	.....
Street lighting.....	3,422.37	777.00	3,579.00	6,376.00	651.41
Merchandise.....	13.58	.....	.....	1,091.44	.....
Miscellaneous.....	656.19	449.90	2,019.29	2,341.85	310.29
Total earnings.....	41,495.57	6,778.19	252,067.00	156,227.78	9,233.41
EXPENSES					
Power purchased.....	21,258.03	3,325.09	201,800.25	89,325.98	4,283.46
Substation operation.....	.....	.....	385.95	2,700.54	.....
Substation maintenance.....	.....	.....	.....	452.44	.....
Distribution system, operation and maintenance.....	2,306.23	363.78	3,397.33	4,327.37	336.81
Line transformer maintenance.....	151.70	33.83	308.60	830.64	.....
Meter maintenance.....	310.43	20.79	462.69	1,379.45	162.79
Consumers' premises expenses.....	98.94	115.71	32.27	106.37	221.15
Street lighting, operation and maintenance.....	621.10	58.33	1,008.50	1,032.99	163.10
Promotion of business.....	.....	27.12	.....	24.00	.....
Billing and collecting.....	1,015.43	393.36	2,356.96	2,137.70	.....
General office, salaries and expenses..	888.13	272.27	2,050.03	1,713.31	494.98
Undistributed expenses.....	637.28	1.54	342.41	1,434.81	.....
Truck operation and maintenance....	277.24	.....	274.27	239.95	.....
Interest.....	.....	.....	.....	.....	309.62
Sinking fund and principal payments on debentures.....	.....	.....	.....	.....	735.16
Depreciation.....	2,109.00	356.00	5,286.00	9,727.00	386.00
Other reserves.....	.....	.....	.....	.....	.....
Total operating costs and fixed charges.....	29,673.51	4,967.82	217,705.26	115,432.55	7,093.07
Net surplus.....	11,822.06	1,810.37	34,361.74	40,795.23	2,140.34
Net loss.....	.....	.....	.....	.....	.....
NUMBER OF CONSUMERS					
Domestic service.....	799	128	977	1,743	194
Commercial light service.....	161	55	62	211	59
Power service.....	20	3	17	53	2
Total.....	980	186	1,056	2,007	255

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1945

Millbrook 673	Milton 1,955	Milverton 970	Mimico 8,400	Mitchell 1,531	Moorefield P.V.	Morrisburg 1,436
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
4,379.36	14,263.35	6,057.90	69,460.98	14,310.57	1,385.40	10,994.77
1,981.74	7,959.80	4,031.73	13,490.69	7,437.71	1,491.15	6,339.59
1,962.19	28,292.33	5,708.57	8,477.74	6,901.20	200.08	3,392.13
.....	.....	534.92	8,149.60	1,137.52	.....	727.65
787.08	2,279.93	1,035.80	8,158.06	2,602.88	350.00	2,124.00
.....	259.72	.....	.....	3,044.47	.....	.....
76.52	2,435.20	237.68	1,804.08	1,285.50	102.92	172.28
9,186.89	55,490.33	17,606.60	109,541.15	36,719.85	3,529.55	23,750.42
3,460.50	38,185.78	13,383.18	65,480.57	19,670.82	2,209.92	8,515.07
.....	246.68	.....	318.23	739.00	.....	2,554.15
346.89	3,662.45	747.56	8,277.12	1,584.89	53.42	823.05
97.28	392.38	.....	144.32	459.40	.....	70.73
279.36	332.38	72.14	808.92	536.60	34.85	316.35
.....	82.59	.....	2,678.94	225.81	.....	.....
268.18	533.38	207.89	1,600.20	341.51	.....	273.98
.....	.....	.....	.....	7.50	63.14	.....
632.75	838.67	714.29	3,465.08	982.18	.....	1,325.18
608.64	1,359.19	352.42	1,651.78	1,248.91	180.31	419.65
.....	138.10	34.73	459.99	1,049.68	5.79	176.41
.....	528.92	.....	587.47	633.17	.....	347.51
.....	.....	.....	.....	.....	.....	383.05
.....	.....	.....	.....	.....	.....	4,908.58
269.00	1,840.00	611.00	5,138.00	2,526.00	184.00	1,060.00
5,962.60	48,140.52	16,123.21	90,610.62	30,005.47	2,731.43	21,173.71
3,224.29	7,349.81	1,483.39	18,930.53	6,714.38	798.12	2,576.71
185	559	271	2,344	530	70	437
60	111	89	165	137	29	111
5	16	10	27	25	2	17
250	686	370	2,536	692	101	565

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Mount Brydges P.V.	Mount Forest 1,753	Napanee	Neustadt	Newbury
Population.....			3,298	418	233
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	2,654.30	10,253.61	28,280.00	2,092.68	1,360.91
Commercial light service.....	1,012.12	8,783.39	19,373.20	1,056.38	458.72
Commercial power service.....	852.84	5,898.81	12,013.10	505.89	174.17
Municipal power.....		1,010.35	120.00		
Street lighting.....	807.00	2,275.92	4,074.24	663.00	720.00
Merchandise.....			1,976.02		
Miscellaneous.....	458.61	380.79	1,068.21	478.02	159.99
Total earnings.....	5,784.87	28,602.87	66,904.77	4,795.97	2,873.79
EXPENSES					
Power purchased.....	3,170.95	18,381.66	31,797.47	1,262.09	1,247.23
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	94.46	1,082.11	4,001.00	527.08	218.61
Line transformer maintenance.....			124.67		
Meter maintenance.....	452.27	150.60	621.08		41.61
Consumers' premises expenses.....	16.89		1,213.40		
Street lighting, operation and main- tenance.....	79.72	316.56	791.31	55.81	67.06
Promotion of business.....					
Billing and collecting.....	238.94	772.76	2,176.17		167.77
General office, salaries and expenses..	74.81	198.67	7,942.24	452.81	36.90
Undistributed expenses.....	6.39	95.70	3,432.37		6.20
Truck operation and maintenance.....		51.54	773.86		
Interest.....	15.14	98.52			
Sinking fund and principal payments on debentures.....	275.23	1,205.62			
Depreciation.....	320.00	1,271.00	2,808.00	534.00	284.00
Other reserves.....					
Total operating costs and fixed charges.....	4,744.80	23,624.74	55,681.57	2,831.79	2,069.38
Net surplus.....	1,040.07	4,978.13	11,223.20	1,964.18	804.41
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	170	509	920	118	76
Commercial light service.....	40	138	215	25	19
Power service.....	5	17	24	2	1
Total.....	215	664	1,159	145	96

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1945

Newcastle 690	New Hamburg 1,454	Newmarket* 3,956	New Toronto 8,374	Niagara Falls 19,138	Niagara-on- the-Lake 1,802
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
5,232.23	10,026.77	18,089.70	48,282.00	134,099.25	19,706.63
1,661.74	4,911.46	12,810.13	21,226.75	74,326.74	7,166.17
3,061.93	8,408.22	9,579.80	233,023.75	100,205.48	5,361.69
.....	.....	1,545.56	13,099.10	14,760.43	1,157.07
655.02	2,217.00	3,456.71	7,652.94	25,120.86	3,822.70
.....	.....	.....	.....	.....	335.44
260.18	620.03	.....	2,403.72	5,581.41	324.56
10,871.10	26,183.48	45,481.90	325,688.26	354,094.17	37,874.26
5,427.40	16,248.11	35,101.41	263,035.51	183,535.31	19,795.71
.....	277.30	468.98	.....	11,107.60	205.40
.....	.....	348.57	.....	.....	.....
640.13	1,431.51	1,747.79	7,069.63	12,701.21	1,588.38
33.90	26.22	307.41	67.20	1,190.74	206.37
188.59	276.27	344.46	1,763.10	7,165.67	678.95
274.31	54.09	.....	108.01	2,277.08	471.99
116.47	246.27	672.87	1,188.92	2,747.47	815.53
.....	52.65	.....	.....	.....	21.50
681.10	954.36	1,222.16	4,880.16	8,936.29	1,318.30
282.42	1,156.93	774.26	6,951.94	13,459.65	1,480.12
93.36	386.31	34.15	1,832.98	5,902.57	1,284.43
.....	315.49	81.50	471.56	2,996.82	390.03
.....	.....	.....	.....	2,297.91	830.51
.....	.....	.....	.....	14,553.04	2,480.52
585.00	1,177.00	2,554.00	5,327.00	21,349.00	3,009.00
.....
8,322.68	22,602.51	43,657.56	292,696.01	290,220.36	34,576.74
2,548.42	3,580.97	1,824.34	32,992.25	63,873.81	3,297.52
.....
.....
233	386	1,138	2,064	5,006	641
35	106	170	222	750	102
6	12	30	36	116	11
274	504	1,338	2,322	5,872	754

* 8 months' operation.

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	North York Twp. V.A.	Norwich	Norwood	Oil Springs 426	Omemees
Population.....	1,199	694	426	598	
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	239,262.95	10,067.41	5,747.40	2,137.54	3,581.66
Commercial light service.....	34,769.28	5,044.77	2,992.53	1,444.46	909.77
Commercial power service.....	141,427.54	1,754.20	1,309.39	5,485.75	3,477.21
Municipal power.....	29,974.15	500.45			
Street lighting.....	4,613.82	2,220.00	1,606.00	646.00	986.04
Merchandise.....		1,634.50		11.56	
Miscellaneous.....	4,367.69	404.35	719.31	543.23	208.60
Total earnings.....	454,415.43	21,625.68	12,374.63	10,268.54	9,163.28
EXPENSES					
Power purchased.....	228,593.87	12,021.93	4,657.76	5,710.12	5,158.98
Substation operation.....	399.46				
Substation maintenance.....					
Distribution system, operation and maintenance.....	17,764.81	2,185.54	530.86	388.86	550.12
Line transformer maintenance.....	1,472.36	35.59	57.87	31.39	
Meter maintenance.....	4,762.92	114.07	106.59	47.55	200.46
Consumers' premises expenses.....	2,345.10	184.73		5.21	
Street lighting, operation and main- tenance.....	1,334.02	223.97	86.15	34.27	284.07
Promotion of business.....					
Billing and collecting.....	12,562.59	1,101.22	570.63	529.38	
General office, salaries and expenses..	9,853.87	1,085.67	378.89	213.38	474.78
Undistributed expenses.....	5,128.13	149.13		21.79	10.76
Truck operation and maintenance...	5,563.46	109.77	80.43		
Interest.....	7,976.88		711.33		
Sinking fund and principal payments on debentures.....	22,067.05		1,695.21		
Depreciation.....	24,250.00	735.00	962.00	744.00	671.00
Other reserves.....					
Total operating costs and fixed charges.....	344,074.52	17,946.62	9,837.72	7,725.95	7,350.17
Net surplus.....	110,340.91	3,679.06	2,536.91	2,542.59	1,813.11
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	7,585	401	253	108	176
Commercial light service.....	372	89	61	36	30
Power service.....	73	9	6	33	6
Total.....	8,030	499	320	177	212

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1945

Orangeville 2,559	Orono P.V.	Oshawa 26,824	Ottawa 163,829	Otterville P.V.	Owen Sound 13,402
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
17,819.41	4,615.90	244,828.75	643,752.25	2,938.11	77,440.17
12,509.69	1,992.73	82,963.58	314,712.83	1,965.30	52,609.29
6,232.38	303.68	315,656.11	63,881.40	470.29	85,282.26
972.83		10,542.68	22,937.67	77.28	1,536.20
2,569.80	955.00	12,578.36	82,147.00	906.50	11,643.58
91.28		7,643.30			2,453.43
817.08	372.74	9,880.67	15,974.26	187.50	671.70
41,012.47	8,240.05	684,093.45	1,143,405.41	6,544.98	231,636.63
24,624.56	3,383.59	363,369.31	599,921.46	3,272.83	138,968.09
		1,697.88	34,095.74		5,428.05
			1,143.49		
2,274.20	195.66	18,557.44	28,094.33	251.52	4,346.43
54.50	29.32	414.50	2,565.64		950.62
395.83	112.54	7,029.57	13,780.34	9.00	1,693.18
43.87	5.00	24,589.52	4,231.83		17.85
846.15	80.94	1,750.01	35,015.36	104.18	1,687.06
		481.08	3,857.98		497.58
1,744.48	621.66	13,950.78	51,434.88	335.14	6,335.77
751.17	393.71	13,776.86	32,054.95	313.39	8,380.43
151.20	27.05	6,341.66	23,117.27	6.50	3,627.25
			3,580.89		932.31
		2,792.24	12,089.55		
		18,000.00	12,553.38		
1,864.00	238.00	18,047.00	123,405.00	433.00	6,539.00
			53,612.65		
32,749.96	5,087.47	490,797.85	1,034,554.74	4,725.56	179,403.62
8,262.51	3,152.58	193,295.60	108,850.67	1,819.42	52,233.01
750	183	6,971	15,805	146	3,726
155	39	727	1,495	48	555
27	2	119	207	5	105
932	224	7,817	17,507	199	4,386

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Paisley	Palmerston	Paris	Parkhill	Penetanguishene
Population.....	577	1,396	4,524	801	4,018
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	4,193.74	11,776.66	27,755.38	6,251.77	14,088.87
Commercial light service.....	2,561.44	5,191.87	10,930.90	3,643.13	8,800.13
Commercial power service.....	963.59	7,408.46	24,245.04	2,024.66	22,113.32
Municipal power.....		1,452.40	1,220.47	564.12	2,207.02
Street lighting.....	1,333.00	2,495.40	5,614.00	1,724.98	2,325.83
Merchandise.....		57.05			229.17
Miscellaneous.....	206.75	410.26	1,481.70	264.50	884.81
Total earnings.....	9,258.52	28,792.10	71,247.49	14,473.16	50,649.15
EXPENSES					
Power purchased.....	4,840.77	20,119.49	42,415.62	8,895.28	24,683.50
Substation operation.....			624.25		
Substation maintenance.....					56.70
Distribution system, operation and maintenance.....	758.50	576.92	2,976.22	718.31	3,576.36
Line transformer maintenance.....		181.51	265.94	25.76	364.13
Meter maintenance.....	125.85	595.26	968.62	290.40	565.99
Consumers' premises expenses.....		436.70	585.56	100.00	187.03
Street lighting, operation and maintenance.....	178.01	432.14	1,856.51	180.55	446.26
Promotion of business.....					
Billing and collecting.....		1,051.65	2,117.60	555.65	1,738.84
General office, salaries and expenses..	829.89	606.43	1,404.03	36.12	1,143.28
Undistributed expenses.....		74.86	636.27	16.47	153.83
Truck operation and maintenance.....		200.92	583.51	125.30	432.21
Interest.....		7.94			
Sinking fund and principal payments on debentures.....					
Depreciation.....	436.00	1,925.00	4,680.00	686.00	2,682.00
Other reserves.....					7,000.00
Total operating costs and fixed charges.....	7,169.02	26,208.82	59,114.13	11,629.84	43,030.13
Net surplus.....	2,089.50	2,583.28	12,133.36	2,843.32	7,619.02
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	209	400	1,220	315	838
Commercial light service.....	54	95	193	85	112
Power service.....	3	14	27	9	21
Total.....	266	509	1,440	409	971

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1945

Perth	Peterborough	Petrolia	Picton	Plattsville	Point Edward
4,230	27,871	2,684	3,690	P.V.	1,221
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
29,726.33	203,373.29	14,771.95	25,143.91	2,627.13	7,547.38
17,787.25	97,958.12	9,240.77	15,834.20	1,797.60	3,147.65
16,911.87	191,755.39	25,522.17	6,578.73	2,040.95	43,965.96
1,048.23	6,876.49		1,902.80		
3,088.50	24,730.02	3,125.50	3,749.82	408.00	1,793.70
4,546.37		365.09	1,892.86		
2,773.13	12,700.21	1,094.09	1,733.42	268.55	708.26
75,881.68	537,393.52	54,119.57	56,835.74	7,142.23	57,162.95
37,439.11	291,552.37	28,566.16	37,639.58	4,828.16	46,243.51
416.51	7,243.09	244.25			
	572.10				
1,812.70	22,224.16	3,557.21	1,513.67	35.52	362.03
173.15	2,203.43	529.52	222.79		8.04
666.61	6,975.08	1,005.96	829.63		439.27
	5,880.20	617.83			
504.44	6,668.36	1,251.48	629.57	48.99	286.77
6.71	169.45	103.38	8.00		67.06
2,148.88	12,072.90	1,496.91	1,838.04	264.50	1,237.93
3,648.25	7,848.74	2,425.72	3,108.12	46.67	1,111.57
595.54	9,449.70	199.96	232.88	6.88	31.12
916.70	1,570.12	495.26	232.08		
1,601.83	12,424.23	195.54			
3,660.48	5,682.04	2,282.57			
3,439.00	27,321.00	2,785.00	3,069.00	245.00	1,002.00
	300.00				3,256.10
57,021.91	420,156.97	45,756.75	49,323.36	5,475.72	54,045.40
18,859.77	117,236.55	8,362.82	7,512.38	1,666.51	3,117.55
1,119	7,695	825	1,200	124	355
195	984	149	212	23	45
30	177	55	35	2	11
1,344	8,856	1,029	1,447	149	411

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Port Colborne 7,187	Port Credit 2,249	Port Dalhousie 1,747	Port Dover 2,001	Port Elgin 1,276
Population.....					
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	32,928.51	19,699.45	22,466.46	11,580.25	13,129.82
Commercial light service.....	21,126.07	7,274.31	5,109.10	5,799.05	7,280.72
Commercial power service.....	14,281.07	4,934.00	7,215.71	5,871.07	3,602.12
Municipal power.....	6,604.91	1,165.69			791.21
Street lighting.....	9,058.92	2,918.50	1,686.00	2,591.97	2,452.72
Merchandise.....					
Miscellaneous.....	3,208.70	793.93	681.97	461.80	
Total earnings.....	87,208.18	36,785.88	37,159.24	26,304.14	27,256.59
EXPENSES					
Power purchased.....	41,566.99	22,658.02	21,312.69	15,163.63	15,699.30
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	6,668.11	1,812.36	3,287.99	2,720.87	999.26
Line transformer maintenance.....	1,515.83	205.86	50.69	37.55	2.64
Meter maintenance.....	1,615.54	283.31	807.41	637.44	162.54
Consumers' premises expenses.....	108.55	941.87	195.12	131.17	134.14
Street lighting, operation and main- tenance.....	3,073.23	1,144.12	293.15	598.40	214.23
Promotion of business.....	231.99				
Billing and collecting.....	2,931.93	1,376.83	1,528.98	815.86	715.34
General office, salaries and expenses..	2,032.84	555.81	1,272.02	1,299.24	273.87
Undistributed expenses.....	1,280.77	138.41	289.33	138.54	43.36
Truck operation and maintenance...	1,599.21		855.24	579.52	171.02
Interest.....	658.30	85.36		7.34	561.28
Sinking fund and principal payments on debentures.....	2,952.61	396.09			2,514.92
Depreciation.....	3,748.00	1,537.00	1,533.00	1,326.00	1,420.00
Other reserves.....	8,000.00				
Total operating costs and fixed charges.....	77,983.90	31,135.04	31,425.62	23,455.56	22,911.90
Net surplus.....	9,224.28	5,650.84	5,733.62	2,848.58	4,344.69
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	1,682	652	704	781	525
Commercial light service.....	238	89	72	125	129
Power service.....	25	14	12	16	7
Total.....	1,945	755	788	922	661

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1945

Port Hope	Port McNicoll	Port Perry	Port Rowan	Port Stanley	Prescott
4,881	825	1,275	584	833	3,318
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
35,697.20	4,234.82	10,291.33	3,328.98	17,121.29	25,061.42
16,068.26	823.10	3,925.30	2,457.15	4,877.86	12,605.67
39,947.14		2,863.37	105.43	3,929.39	14,240.57
1,720.49		412.46		912.40	1,435.98
4,197.14	900.00	1,668.73	846.66	2,565.24	4,180.50
285.69					
1,089.65	61.62	228.75	224.15	730.81	181.15
99,005.57	6,019.54	19,389.94	6,962.37	30,136.99	57,705.29
62,632.66	2,274.70	11,162.94	3,684.63	20,133.36	34,567.89
					1,595.35
1,374.34	759.43	1,341.21	273.51	2,765.88	4,360.53
552.19			3.75	193.90	194.87
1,536.36	178.58	330.68	6.53	109.14	308.60
1,806.27				214.45	501.18
1,243.72	236.11	188.65	112.38	369.96	739.80
34.95					
2,919.38	745.50	913.97	336.63	1,289.53	1,403.07
4,162.98	355.30	496.63	64.30	1,160.82	2,594.05
1,473.76	92.72		6.88	416.61	534.63
407.04				304.89	
		185.91	154.81		
		1,504.12	805.22		
3,850.00	371.00	809.00	338.00	1,244.00	2,629.00
				1,000.00	
81,993.65	5,013.34	16,933.11	5,786.64	29,202.54	49,428.97
17,011.92	1,006.20	2,456.83	1,175.73	934.45	8,276.32
1,444	251	391	178	950	827
202	18	79	41	85	152
41		10	2	11	23
1,687	269	480	221	1,046	1,002

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Preston	Priceville	Princeton	Queenston	Renfrew
Population.....	6,707	P.V.	P.V.	P.V.	5,673
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	41,118.06	638.52	2,811.44	3,048.06	29,038.29
Commercial light service.....	22,201.14	162.92	938.48	1,482.35	20,617.28
Commercial power service.....	59,504.93	303.91	2,674.67		24,219.74
Municipal power.....	1,258.39				
Street lighting.....	5,790.31	34.00	468.00	460.01	4,900.00
Merchandise.....					
Miscellaneous.....	1,351.31	72.66	204.47	242.86	8,976.95
Total earnings.....	131,224.14	1,212.01	7,097.06	5,233.28	87,752.26
EXPENSES					
Power purchased.....	90,338.46	315.00	4,808.18	2,780.93	6,429.94
Substation operation.....	4,570.91				12,074.43
Substation maintenance.....	12.81				764.13
Distribution system, operation and maintenance.....	2,181.56	172.23	45.51	256.35	1,941.17
Line transformer maintenance.....	280.44			66.75	96.13
Meter maintenance.....	921.67		7.78	16.00	656.90
Consumers' premises expenses.....	621.92		47.33	151.34	11.65
Street lighting, operation and maintenance.....	888.80	47.28	63.60	3.02	1,153.64
Promotion of business.....					47.15
Billing and collecting.....	1,967.26		317.35	243.69	3,295.78
General office, salaries and expenses.....	2,852.13	149.07	87.62	162.33	5,151.80
Undistributed expenses.....	1,077.24		1.92	35.63	1,264.94
Truck operation and maintenance.....	362.06				469.98
Interest.....	374.65			24.79	5,058.82
Sinking fund and principal payments on debentures.....	1,197.56			94.32	17,184.77
Depreciation.....	7,477.00	193.00	201.00	317.00	9,757.00
Other reserves.....					
Total operating costs and fixed charges.....	115,124.47	876.58	5,580.29	4,152.15	65,358.23
Net surplus.....	16,099.67	335.43	1,516.77	1,081.13	22,394.03
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	1,701	36	96	82	1,366
Commercial light service.....	226	9	22	17	227
Power service.....	51	3	3		58
Total.....	1,978	48	121	99	1,651

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1945

Richmond 412	Richmond Hill 1,454	Ridgetown 1,911	Ripley 358	Riverside 5,686	Rockwood P.V.	Rodney 718
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,737.68	11,740.85	9,407.31	3,252.57	44,340.08	4,531.33	3,621.01
1,142.34	4,494.96	8,295.60	1,985.62	6,469.11	1,195.44	2,333.60
.....	2,057.04	6,111.92	2,286.79	4,486.21	65.54	1,981.58
.....	387.30	1,145.90	.....	3,627.54	.....	.....
390.00	1,543.42	3,452.29	1,096.00	4,151.58	819.00	1,132.08
.....	19.29	61.52	.....	723.33	21.65	.....
5.16	283.21	1,459.48	.....	1,508.93	132.77	200.05
4,275.18	20,526.07	29,934.02	8,620.98	65,306.78	6,765.73	9,268.32
.....
2,568.17	12,647.35	17,456.35	3,800.84	38,335.09	4,342.74	5,521.25
.....	.....	.....	.....	42.76	.....	.....
.....
270.58	697.68	1,995.46	191.99	2,338.19	133.30	584.44
.....	.....	285.64	.....	79.12	58.84	53.40
35.85	61.14	102.51	63.17	561.28	92.24	33.81
.....	175.85	306.49	.....	2,219.80	19.88	.....
.....
98.36	149.76	797.85	107.43	871.62	89.29	156.03
.....
226.73	1,189.42	1,920.43	.....	2,414.64	.....	401.99
44.11	332.00	1,254.04	544.40	3,277.87	698.21	519.21
.....	4.73	7.84	.....	746.88	67.76	32.75
.....	.....	735.84	.....	698.94	.....	.....
117.82	.....	56.24	259.85	.....	58.03	.....
.....
448.88	.....	719.68	768.21	.....	142.57	.....
.....
328.00	901.00	1,327.00	575.00	3,339.00	415.00	703.00
.....	.....	1,000.00	.....	.....	.....	.....
.....
4,138.50	16,158.93	27,965.37	6,310.89	54,925.19	6,117.86	8,005.88
136.68	4,367.14	1,968.65	2,310.09	10,381.59	647.87	1,262.44
.....
.....
93	431	604	133	1,629	180	256
22	75	138	51	72	30	67
.....	15	20	2	13	2	6
115	521	762	186	1,714	212	329

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Rosseau	Russell	St. Catharines	St. Clair Beach	St. George
Population.....	179	P.V.	34,541	230	P.V.
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	1,754.06	3,604.81	194,040.79	3,115.29	3,341.55
Commercial light service.....	805.24	1,663.23	107,842.60	1,849.81	1,459.17
Commercial power service.....	279.99		417,186.72	200.90	4,279.82
Municipal power.....					
Street lighting.....	797.17	848.00	28,367.88		513.00
Merchandise.....					
Miscellaneous.....		177.50	12,886.48	307.95	383.07
Total earnings.....	3,818.46	6,293.54	760,324.47	5,473.95	9,976.61
EXPENSES					
Power purchased.....	1,016.56	2,836.52	519,765.38	3,645.40	6,388.97
Substation operation.....			7,614.55		
Substation maintenance.....					
Distribution system, operation and maintenance.....	21.57	389.61	21,184.12	325.26	155.66
Line transformer maintenance.....			1,745.11	37.28	
Meter maintenance.....	16.00	21.35	7,737.57	23.50	53.71
Consumers' premises expenses.....		12.90	1,857.90	58.05	
Street lighting, operation and main- tenance.....	60.00	78.13	4,409.71		149.39
Promotion of business.....			383.76		
Billing and collecting.....	329.97	460.73	17,120.08	357.12	412.27
General office, salaries and expenses..	107.76	153.54	13,918.26	209.46	203.55
Undistributed expenses.....			8,035.56		
Truck operation and maintenance.....			2,160.25		
Interest.....	406.29	43.62	1,050.00		
Sinking fund and principal payments on debentures.....	670.86	793.17	3,500.00		
Depreciation.....	381.00	249.00	18,226.00	340.00	281.00
Other reserves.....			4,000.00		
Total operating costs and fixed charges.....	3,010.01	5,038.57	632,708.25	4,996.07	7,644.55
Net surplus.....	808.45	1,254.97	127,616.22	477.88	2,332.06
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	65	124	8,887	108	164
Commercial light service.....	12	31	1,094	6	28
Power service.....	1		216	1	3
Total.....	78	155	10,197	115	195

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1945

St. Jacobs P.V.	St. Marys 4,005	St. Thomas 17,773	Sarnia 20,082	Scarborough Twp. V.A.	Seaforth 1,724
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
4,215.64	31,465.74	147,175.51	126,014.43	141,923.12	12,493.53
2,066.15	12,621.53	62,055.58	67,465.29	27,123.09	9,667.14
5,223.62	22,208.83	70,439.23	60,695.58	24,536.42	17,216.86
.....	2,424.73	5,244.66	4,842.63	15,158.72	747.58
430.00	4,948.00	15,126.85	20,043.43	15,264.30	2,134.50
.....	118.76	.....	163.69	.....	279.94
292.50	944.51	5,664.60	26,293.98	3,637.50	346.25
12,227.91	74,732.10	305,706.43	305,519.03	227,643.15	42,885.80
8,998.67	47,029.57	200,206.25	154,293.99	120,879.70	27,356.66
.....	2,810.78	9,653.82	11,646.73	.....	.....
.....	.....	272.52	753.30	350.47	108.56
69.51	2,885.79	6,998.61	6,941.69	8,594.01	1,116.77
16.25	185.53	658.02	1,306.29	1,260.72	301.35
59.62	1,391.28	2,305.42	7,938.16	3,951.55	401.34
.....	950.69	10,703.21	5,835.71	1,424.67	313.86
15.00	1,188.00	1,695.12	6,862.32	2,605.21	374.62
.....	43.20	576.58	344.12	.....	.....
423.34	1,619.82	8,332.99	11,358.44	7,005.22	1,083.57
228.83	3,264.63	9,745.04	17,222.70	6,073.50	1,389.71
38.82	1,673.08	5,816.65	6,942.20	1,997.17	102.73
.....	375.97	.....	2,440.89	2,229.45	314.47
.....	620.55	.....	.....	.....	313.09
.....	1,425.67	.....	.....	.....	555.16
535.00	4,343.00	20,883.00	15,772.00	11,770.00	1,539.00
.....	.....	.....	30,000.00	.....	100.00
10,385.04	69,807.56	277,847.23	279,658.54	168,141.67	35,370.89
1,842.87	4,924.54	27,859.20	25,860.49	59,501.48	7,514.91
.....
139	1,084	4,737	5,518	6,113	525
33	174	618	634	406	119
9	40	86	90	46	22
181	1,298	5,441	6,242	6,565	666

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Shelburne	Simcoe	Smiths Falls	Smithville	Southamp- ton
Population.....	985	6,047	7,708	P.V.	1,596
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	6,089.97	29,437.47	53,345.30	3,704.53	11,288.94
Commercial light service.....	4,047.55	32,888.24	19,030.33	2,673.44	6,223.94
Commercial power service.....	3,040.90	31,023.01	30,681.65	2,754.62	7,881.51
Municipal power.....	286.56	2,966.79	615.98		973.06
Street lighting.....	882.00	5,296.44	7,758.99	1,236.00	2,519.23
Merchandise.....	4.80				
Miscellaneous.....	496.00	3,513.86	3,586.63	417.06	28.08
Total earnings.....	14,847.78	105,125.81	115,018.88	10,785.65	28,914.76
EXPENSES					
Power purchased.....	8,118.64	69,290.01	62,620.76	5,034.58	15,612.72
Substation operation.....			463.43		
Substation maintenance.....		228.20	901.15		
Distribution system, operation and maintenance.....	543.94	6,252.70	6,221.16	1,120.93	1,071.49
Line transformer maintenance.....	203.28	859.54	288.68	10.34	
Meter maintenance.....	193.92	1,806.33	892.42	51.84	206.09
Consumers' premises expenses.....		298.80	1,696.23	22.64	128.31
Street lighting, operation and maintenance.....	50.51	682.71	847.67	183.49	487.74
Promotion of business.....		116.65	112.84		
Billing and collecting.....	761.85	2,915.77	4,327.52	786.11	856.06
General office, salaries and expenses..	119.74	3,006.56	3,241.91	211.06	501.87
Undistributed expenses.....	8.35	341.71	1,461.29	38.12	82.13
Truck operation and maintenance.....		1,567.74	616.34	200.00	253.78
Interest.....		513.46		219.74	194.97
Sinking fund and principal payments on debentures.....		2,696.23		828.23	1,975.98
Depreciation.....	898.00	6,000.00	6,192.00	435.00	1,515.00
Other reserves.....		4,300.00			
Total operating costs and fixed charges.....	10,898.23	100,876.41	89,883.40	9,142.08	22,886.14
Net surplus.....	3,949.55	4,249.40	25,135.48	1,643.57	6,028.62
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	318	1,691	2,033	190	583
Commercial light service.....	75	333	268	54	91
Power service.....	14	49	38	5	12
Total.....	407	2,073	2,339	249	686

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1945

Springfield 401	Stamford Twp. V.A.	Stayner 1,162	Stirling 984	Stouffville 1,295	Stratford 17,161
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,273.20	75,548.73	6,456.78	6,942.69	7,638.96	150,950.81
801.75	14,812.65	4,094.65	3,620.59	4,162.82	59,990.78
1,253.15	16,249.63	2,780.93	1,207.38	1,225.16	55,081.00
.....	2,715.57	97.02	236.48	.....	9,461.84
611.50	8,331.00	1,462.00	1,747.08	1,430.00	16,944.87
.....	1,192.34	.....	118.35	.....	1,453.13
185.62	2,210.98	258.27	519.45	705.50	11,462.59
5,125.22	121,060.90	15,149.65	14,392.02	15,162.44	305,345.02
2,861.96	51,397.83	7,782.84	6,676.63	9,836.18	180,100.87
.....	701.28	.....	240.00	.....	6,805.61
.....	.....	.....	1.47	.....	4,359.93
78.48	9,915.51	909.63	697.45	612.97	10,579.21
.....	216.88	.....	.....	.....	484.47
.....	2,753.98	133.20	104.75	289.84	3,850.55
.....	4,398.80	80.04	5.84	82.01	3,028.18
68.25	1,688.35	270.27	242.28	216.38	2,472.74
.....	32.39	.....	.....	.....	1,509.75
377.86	4,272.18	584.29	651.38	784.16	9,116.84
163.03	5,429.52	412.54	1,417.16	552.41	9,140.58
4.88	2,394.63	3.83	98.06	49.71	3,787.20
.....	2,578.12	.....	409.03	.....	1,239.42
80.31	2,197.13	.....	.....	.....	4,300.00
320.67	9,036.83	.....	.....	.....	1,154.50
481.00	10,866.00	851.00	1,147.00	799.00	19,547.00
.....	10,000.00	.....	.....	.....	.....
4,436.44	117,879.43	11,027.64	11,691.05	13,222.66	261,476.85
688.78	3,181.47	4,122.01	2,700.97	1,939.78	43,868.17
.....
135	2,593	335	294	420	4,604
22	162	85	70	89	604
4	20	17	10	6	121
161	2,775	437	374	515	5,329

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Strathroy	Streets- ville	Sunder- land P.V.	Sutton	Swansea
Population.....	3,001	707		894	7,110
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	25,120.13	6,007.66	3,088.90	9,067.12	66,639.66
Commercial light service.....	13,121.29	2,244.77	1,360.95	3,557.22	10,050.93
Commercial power service.....	16,564.22	3,393.99	377.59	1,773.69	23,417.39
Municipal power.....	1,754.95				2,188.46
Street lighting.....	4,439.03	1,517.00	645.60	1,862.92	5,543.93
Merchandise.....					
Miscellaneous.....	1,211.87	811.57	92.50	359.82	2,739.35
Total earnings.....	62,211.49	13,974.99	5,565.54	16,620.77	110,579.72
EXPENSES					
Power purchased.....	36,885.36	6,089.58	3,145.08	11,312.70	68,743.28
Substation operation.....	869.70	1,025.02			
Substation maintenance.....					
Distribution system, operation and maintenance.....	1,269.39	902.11	295.29	1,185.77	3,343.87
Line transformer maintenance.....	577.44	74.18			294.18
Meter maintenance.....	536.94	120.91	5.70	124.66	1,110.04
Consumers' premises expenses.....	1,365.65				3,506.28
Street lighting, operation and main- tenance.....	1,040.79	88.05	115.67	336.48	826.31
Promotion of business.....					
Billing and collecting.....	975.16	1,071.41	485.57	741.78	4,032.87
General office, salaries and expenses..	2,735.08	155.30	113.35	235.15	2,232.08
Undistributed expenses.....	986.28	47.32		38.71	629.31
Truck operation and maintenance....	740.69			289.05	644.58
Interest.....	638.98	433.73			2,346.41
Sinking fund and principal payments on debentures.....	2,686.00	689.66			3,875.41
Depreciation.....	2,964.00	1,194.00	305.00	840.00	3,846.00
Other reserves.....					
Total operating costs and fixed charges.....	54,271.46	11,891.27	4,465.66	15,104.30	95,430.62
Net surplus.....	7,940.03	2,083.72	1,099.88	1,516.47	15,149.10
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	890	205	149	478	2,109
Commercial light service.....	175	48	39	77	97
Power service.....	32	6	2	5	16
Total.....	1,097	259	190	560	2,222

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1945

Tara	Tavistock	Tecumseh	Teeswater	Thamesford	Thamesville	Thedford
482	1,037	2,794	846	P.V.	777	573
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,979.97	8,612.44	15,445.30	4,512.13	4,459.87	3,807.74	3,351.08
1,552.97	4,496.97	5,244.16	2,745.63	1,394.58	3,007.89	2,465.15
1,674.21	9,043.85	1,401.74	2,208.89	2,089.05	1,866.21	1,683.20
.....	429.13	288.55	180.00	.....	169.92	.....
821.12	1,317.60	1,435.00	1,029.00	591.25	1,332.62	1,110.00
.....	9.44	181.96	.....	.....	.....	.....
301.26	402.77	716.86	354.01	239.32	580.56	367.57
7,329.53	24,312.20	24,713.57	11,029.66	8,774.07	10,764.94	8,977.00
.....
3,897.58	18,020.56	13,073.15	5,979.57	7,313.89	6,531.65	4,496.44
.....
642.04	514.05	2,112.12	663.42	333.63	538.90	295.26
.....	1.50	16.66	.....	.....	.....	91.13
5.75	384.29	602.72	147.69	264.13	228.19	82.40
.....	155.67	1,271.18	160.17	191.77	.....	.....
96.72	212.08	650.71	150.00	110.56	249.11	196.62
.....	.....	43.85	.....	.....	.....	.....
.....	1,110.72	1,283.97	.....	316.38	353.70	319.85
411.07	617.60	1,454.26	729.50	132.02	179.40	111.73
8.91	35.93	159.52	.....	8.44	12.13	9.82
.....	36.25	240.14	.....	.....	.....	.....
.....	354.06	.....	.....	.....	.....	.....
542.00	806.00	2,212.00	686.00	380.00	667.00	399.00
.....
5,604.07	22,248.71	23,120.28	8,516.35	9,050.82	8,760.08	6,002.25
1,725.46	2,063.49	1,593.29	2,513.31	.....	2,004.86	2,974.75
.....	.....	.....	.....	276.75	.....	.....
.....
157	300	727	236	151	243	189
35	96	58	62	36	69	49
6	9	3	5	6	6	2
198	405	788	303	193	318	240

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Thornbury	Thorndale	Thornton	Thorold	Tilbury
Population.....	803	P.V.	P.V.	5,517	1,995
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	5,162.99	1,951.98	1,231.07	22,166.27	7,867.50
Commercial light service.....	3,023.22	715.55	453.27	9,094.35	7,408.14
Commercial power service.....	2,409.77	1,181.55	280.31	54,938.75	32,305.79
Municipal power.....				2,282.23	225.00
Street lighting.....	1,425.60	384.00	25.00	3,819.27	1,875.00
Merchandise.....					
Miscellaneous.....		67.50	75.00	2,237.05	1,336.26
Total earnings.....	12,021.58	4,300.58	2,064.65	94,537.92	51,017.69
EXPENSES					
Power purchased.....	3,951.67	3,007.31	1,108.88	67,168.34	37,982.44
Substation operation.....	2,973.13			3,123.84	
Substation maintenance.....					
Distribution system, operation and maintenance.....	954.10	232.69	186.34	2,260.96	1,212.28
Line transformer maintenance.....				30.81	20.80
Meter maintenance.....	117.51	4.89		566.46	707.59
Consumers' premises expenses.....		3.50		159.48	
Street lighting, operation and maintenance.....	183.44	49.55	86.26	822.42	339.20
Promotion of business.....					
Billing and collecting.....	759.13	185.36		2,428.95	817.26
General office, salaries and expenses..	219.33	53.14	180.57	997.00	996.20
Undistributed expenses.....	140.17			260.37	200.06
Truck operation and maintenance.....				665.21	275.46
Interest.....	137.58	28.25			
Sinking fund and principal payments on debentures.....	674.24	134.38			
Depreciation.....	816.00	251.00	301.00	2,353.00	1,192.00
Other reserves.....					3,000.00
Total operating costs and fixed charges.....	10,926.30	3,950.07	1,863.05	80,836.84	46,743.29
Net surplus.....	1,095.28	350.51	201.60	13,701.08	4,274.40
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	261	86	68	1,286	521
Commercial light service.....	65	21	13	163	129
Power service.....	11	2	2	18	16
Total.....	337	109	83	1,467	666

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1945

Tillsonburg 4,031	Toronto* 676,887	Toronto Twp. V.A.	Tottenham 454	Trafalgar Twp. No. 1 V.A.	Trafalgar Twp. No. 2 V.A.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
22,250.73	4,198,627.30	101,064.03	3,534.44	19,572.00	6,774.09
21,350.11	2,929,153.15	25,051.51	1,082.39	1,017.71	915.45
15,805.13	4,817,810.27	10,275.98	1,552.32	2,706.78	174.07
1,685.22	1,408,714.53		221.35		
5,021.13	446,546.67	5,973.78	868.16		
354.78	14,452.74		1.41		
770.62	440,307.04	3,360.97	103.67	552.96	235.54
67,237.72	14,255,611.70	145,726.27	7,363.74	23,849.45	8,099.15
37,406.00	*7,973,627.46	83,906.88	4,152.39	12,459.87	5,029.18
1,306.61	228,942.78				
	321,562.17				
2,674.81	382,682.18	5,953.23	589.92	2,537.54	976.25
14.57	53,015.46	742.27		68.43	51.43
926.72	121,274.10	912.31	72.65	158.05	7.50
339.94	275,468.38	282.81		237.47	
993.54	134,923.98	1,091.61	119.42		
	130,799.90				
2,764.65	451,484.25	9,699.29	417.09	1,542.88	
4,676.13	380,954.32	8,729.23	221.80	374.18	755.94
214.86	329,236.94	593.88		405.29	25.21
218.69		2,186.20		530.30	
342.96	528,174.50	601.82	108.78		329.93
392.86	607,485.38	1,517.21	711.34		960.39
4,514.00	1,149,345.22	9,094.00	415.00	1,175.00	562.00
5,000.00	†800,000.00				
61,786.34	13,868,977.02	125,310.74	6,808.39	19,489.01	8,697.83
5,451.38	386,634.68	20,415.53	555.35	4,360.44	
					598.68
1,278	155,112	3,305	176	415	170
262	24,330	220	38	6	20
38	5,289	34	8	8	2
1,578	184,731	3,559	222	429	192

* Includes 1945 cost adjustment.

† Provision for renovation of street lighting system and other capital assets.

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Trenton	Tweed	Uxbridge	Victoria Harbour 894	Walkerton
Population.....	9,849	1,250	1,439	894	2,723
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	41,473.91	7,553.87	10,337.74	3,900.49	20,453.59
Commercial light service.....	21,646.76	5,142.10	4,561.41	946.72	13,197.74
Commercial power service.....	84,362.92	4,786.91	2,700.48		10,776.21
Municipal power.....	4,880.79	374.41	484.73	106.66	514.29
Street lighting.....	8,721.98	1,982.77	1,798.95	663.00	2,923.86
Merchandise.....		214.19	40.14		
Miscellaneous.....	3,178.20	329.75	197.50	122.20	
Total earnings.....	164,264.56	20,384.00	20,120.95	5,739.07	47,865.69
EXPENSES					
Power purchased.....	92,005.97	10,630.07	12,498.71	2,154.62	23,713.66
Substation operation.....					
Substation maintenance.....	29.87				
Distribution system, operation and maintenance.....	2,047.03	815.19	760.59	302.49	1,992.77
Line transformer maintenance.....	294.97				284.01
Meter maintenance.....	3,739.85	310.22	204.86	169.35	314.06
Consumers' premises expenses.....	1,158.70		171.30		52.17
Street lighting, operation and main- tenance.....	853.66	355.38	174.47	192.90	364.20
Promotion of business.....	52.17				150.71
Billing and collecting.....	4,551.92	847.54	553.49	759.94	1,421.99
General office, salaries and expenses..	6,925.34	235.37	766.20	343.43	1,612.61
Undistributed expenses.....	2,053.14	11.44	11.89		268.68
Truck operation and maintenance...	1,158.98				4.72
Interest.....					1,016.33
Sinking fund and principal payments on debentures.....					3,592.70
Depreciation.....	7,784.00	794.00	637.00	414.00	2,198.00
Other reserves.....					
Total operating costs and fixed charges.....	122,655.60	13,999.21	15,778.51	4,336.73	36,986.61
Net surplus.....	41,608.96	6,384.79	4,342.44	1,402.34	10,879.08
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	1,880	334	447	281	701
Commercial light service.....	277	80	92	29	137
Power service.....	55	15	12	1	19
Total.....	2,212	429	551	311	857

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1945

Wallace- burg 5,088	Wardsville 226	Warkworth P.V.	Waterdown 916	Waterford 1,352	Waterloo 9,460	Watford 972
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
27,577.27	1,458.23	2,592.65	6,181.10	7,531.25	69,958.26	8,464.89
19,208.22	947.79	1,516.11	1,646.71	3,926.37	27,010.74	4,144.75
126,913.40	37.67	122.24	1,406.47	4,541.29	72,617.19	4,528.72
4,064.43	.....	.....	104.83	333.20	3,187.85	311.90
4,991.04	666.00	611.28	1,092.50	1,518.00	8,054.62	1,633.44
2,926.95	.....	.....	.....	.....	.....	.....
2,728.17	155.24	194.75	300.36	510.56	3,627.56	648.72
188,409.48	3,264.93	5,037.03	10,731.97	18,360.67	184,456.22	19,732.42
128,900.26	1,643.29	2,667.16	6,454.35	11,522.46	135,583.34	12,186.78
422.06	.....	.....	.....	.....	1,631.16	.....
.....	.....	.....	.....	.....	906.71	.....
4,347.66	180.39	187.79	942.60	1,519.38	4,902.11	1,427.10
676.97	.....	.....	.....	55.64	993.48	24.75
1,806.79	.....	24.16	178.75	131.99	1,961.00	116.75
11.00	33.71	.....	.....	.....	1,567.47	213.84
1,115.65	42.55	37.57	205.25	262.90	1,434.80	208.68
222.50	.....	.....	.....	.....	.....	.....
2,569.36	100.95	221.90	691.75	698.65	4,338.44	692.59
5,366.07	66.90	49.28	192.07	299.13	2,978.35	832.40
1,480.25	0.77	.....	39.96	93.39	433.41	41.41
1,236.67	.....	.....	.....	300.00	588.64	375.71
170.85	.....	353.41	.....	.....	.....	.....
2,830.82	.....	446.23	.....	.....	.....	.....
7,627.00	227.00	212.00	1,072.00	840.00	8,868.00	789.00
12,500.00	.....	.....	.....	.....	.....	.....
171,283.91	2,295.56	4,199.50	9,776.73	15,723.54	166,186.91	16,909.01
17,125.57	969.37	837.53	955.24	2,637.13	18,269.31	2,823.41
.....
1,520	68	137	280	414	2,358	307
237	18	36	36	78	267	83
52	1	1	10	15	71	8
1,809	87	174	326	507	2,696	398

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Waubau- shene P.V.	Welland	Wellesley	Welling- ton 909	West Lorne 791
Population.....		15,780	P.V.		
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	3,621.69	57,133.16	2,594.73	6,798.54	3,990.03
Commercial light service.....	876.13	44,419.39	1,464.29	3,015.55	3,391.05
Commercial power service.....	34.80	214,119.41	1,238.31	2,887.40	5,040.70
Municipal power.....	158.10	3,326.83			
Street lighting.....	495.80	16,423.54	660.00	1,075.50	1,069.98
Merchandise.....					
Miscellaneous.....	6.31	10,033.03	219.11	360.00	547.42
Total earnings.....	5,192.83	345,455.36	6,176.44	14,136.99	14,039.18
EXPENSES					
Power purchased.....	2,775.87	239,686.62	3,725.33	7,006.22	8,260.13
Substation operation.....		8,383.21			
Substation maintenance.....		750.45			
Distribution system, operation and maintenance.....	200.77	7,349.60	224.86	937.72	479.28
Line transformer maintenance.....		2,093.26	24.75		
Meter maintenance.....	150.42	6,395.39	97.54	61.15	33.66
Consumers' premises expenses.....		3,722.70	33.96		41.60
Street lighting, operation and main- tenance.....	126.49	3,504.02	48.10	127.59	161.39
Promotion of business.....					
Billing and collecting.....	270.80	7,494.00	286.50	526.20	928.85
General office, salaries and expenses..	274.28	9,039.38	163.67	250.55	240.36
Undistributed expenses.....		929.02	20.57	287.87	
Truck operation and maintenance....		1,236.03		322.92	
Interest.....		1,305.33		171.54	
Sinking fund and principal payments on debentures.....				595.26	
Depreciation.....	510.00	12,960.00	303.00	694.00	619.00
Other reserves.....					
Total operating costs and fixed charges.....	4,308.63	304,849.01	4,928.28	10,981.02	10,764.27
Net surplus.....	884.20	40,606.35	1,248.16	3,155.97	3,274.91
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	239	3,283	138	341	236
Commercial light service.....	22	468	44	68	55
Power service.....	2	93	6	10	8
Total.....	263	3,844	188	419	299

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1945

Weston 6,333	Westport 663	Wheatley 716	Whitby 4,641	Warton 1,709	Williams- burg P.V.	Winchester 959
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
60,332.57	4,151.71	3,698.19	32,807.57	7,888.01	1,788.81	7,247.66
14,704.78	2,911.88	3,833.96	14,363.73	7,367.19	1,994.26	4,748.49
70,409.80		2,665.15	18,379.96	4,988.40	296.12	2,018.69
857.81		504.88	1,993.18	2,618.23		
7,551.24	1,009.43	1,879.50	4,994.04	2,174.13	326.40	944.00
590.87	295.12	293.00	1,660.30	578.30	714.04	457.76
154,447.07	8,368.14	12,874.68	74,198.78	25,614.26	5,119.63	15,416.60
110,602.62	4,055.64	7,673.00	32,239.25	13,163.62	2,773.72	9,089.65
603.85			473.15			
7,140.01	326.01	842.40	3,277.38	1,795.63	201.13	666.92
602.10	28.15		923.58	84.66		
287.28	27.13	119.00	672.12	206.54	39.25	304.12
1,326.78		157.14	419.74		207.76	121.23
1,711.68	108.19	342.67	1,411.12	498.15	31.78	105.74
1,888.78	770.75	496.97	2,596.59	890.64	495.28	745.36
3,127.20	349.73	322.50	2,455.85	540.99	109.55	323.80
601.41	31.41	47.09	934.24	266.38		
497.53			228.51	151.28		
65.00	393.08		330.25	969.83		
	862.86		2,589.03	2,031.24		
7,773.00	352.00	1,071.00	4,494.00	1,226.00	206.00	579.00
136,227.24	7,304.95	11,071.77	53,044.81	21,824.96	4,064.47	11,935.82
18,219.83	1,063.19	1,802.91	21,153.97	3,789.30	1,055.16	3,480.78
1,737	158	246	1,065	461	92	312
192	51	76	167	107	35	85
33		7	28	19	1	3
1,962	209	329	1,260	587	128	400

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Winder- mere 100	Windsor 117,031	Wingham 2,051	Wood- bridge 1,089
Population.....				
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	2,567.00	735,692.16	14,701.67	8,229.90
Commercial light service.....	561.42	427,653.53	10,005.23	2,126.50
Commercial power service.....	709.04	711,433.40	17,848.03	9,276.11
Municipal power.....		19,345.02	1,228.16	809.12
Street lighting.....	325.00	113,432.38	3,295.81	999.26
Merchandise.....			2,391.19	
Miscellaneous.....		44,378.09	48.43	344.60
Total earnings.....	4,162.46	2,051,934.58	49,518.52	21,785.49
EXPENSES				
Power purchased.....	1,817.90	1,192,905.33	23,563.01	16,931.47
Substation operation.....		52,161.77	2,598.05	
Substation maintenance.....		25,831.80		
Distribution system, operation and maintenance.....	144.56	76,955.37	2,507.84	217.72
Line transformer maintenance.....		17,347.35	187.58	
Meter maintenance.....	4.20	39,875.57	495.83	84.49
Consumers' premises expenses.....		54,828.64	95.78	171.05
Street lighting, operation and main- tenance.....	31.75	65,103.02	674.42	65.88
Promotion of business.....		8,741.31		
Billing and collecting.....		65,274.66	831.40	
General office, salaries and expenses.....	226.50	57,644.87	759.28	830.99
Undistributed expenses.....	6.07	11,455.26	742.10	24.76
Truck operation and maintenance.....		18,979.18	617.75	
Interest.....	182.47	18,808.33	1,132.77	78.19
Sinking fund and principal payments on debentures.....	719.05	45,630.32	2,040.68	554.35
Depreciation.....	480.00	165,011.00	4,327.00	738.00
Other reserves.....				
Total operating costs and fixed charges.....	3,612.50	1,916,553.78	40,573.49	19,696.90
Net surplus.....	549.96	135,380.80	8,945.03	2,088.59
Net loss.....				
NUMBER OF CONSUMERS				
Domestic service.....	70	27,274	597	323
Commercial light service.....	11	3,367	194	47
Power service.....	2	513	24	9
Total.....	83	31,154	815	379

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1945

Woodstock	Woodville	Wyoming	York Twp.	Zurich	SOUTHERN ONTARIO SYSTEM SUMMARY
12,916	381	480	V.A.	P.V.	
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
92,155.55	2,417.16	2,728.14	498,427.95	3,907.94	14,726,973.82
58,545.57	944.90	1,575.01	78,586.61	3,333.56	7,740,433.31
105,319.42	685.16	933.29	164,093.98		15,061,009.18
7,449.96			7,157.08		2,045,242.76
9,068.04	434.39	688.50	46,354.65	679.34	1,828,314.89
					65,590.57
3,600.50	165.84	78.00	9,916.51	269.82	1,051,138.75
276,139.04	4,647.45	6,002.94	804,536.78	8,190.66	42,518,703.28
204,007.36	2,493.78	3,722.02	412,490.28	4,950.67	25,407,828.00
6,043.11			3,603.25		603,321.88
			2,508.28		422,715.87
5,114.85	283.80	248.91	13,382.04	219.66	1,190,737.73
97.97		67.45	5,971.11		148,336.76
3,803.44	167.87	72.20	15,779.06	11.28	440,038.56
1,309.21			11,923.26		573,222.84
3,784.14	149.92	118.83	8,106.67	230.16	460,850.11
2,135.50					168,519.27
5,111.86	404.59	252.49	42,630.92	274.72	1,223,899.20
4,111.14	97.85	131.79	33,109.34	119.95	1,145,863.81
2,329.62		7.81	6,220.09	6.88	617,571.66
1,762.88					116,663.66
		3.84	3,739.20	60.49	689,515.64
			17,300.05	332.12	1,221,323.59
11,733.00	210.00	377.00	43,111.00	370.00	2,636,651.49
20,775.00					1,189,541.62
272,119.08	3,807.81	5,002.34	619,874.55	6,575.93	38,256,601.69
4,019.96	839.64	1,000.60	184,662.23	1,614.73	4,262,101.59
3,478	122	172	22,430	148	563,693
481	23	44	1,015	45	77,191
101	2	4	198		13,882
4,060	147	220	23,643	193	654,766

STATEMENT

Detailed Operating Reports of Electrical Departments of

THUNDER BAY SYSTEM

Municipality.....	Fort William	Nipigon Twp. V.A.	Port Arthur	THUNDER BAY SYSTEM SUMMARY
Population.....	28,642		24,469	
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	270,017.78	5,926.07	158,657.24	434,601.09
Commercial light service.....	103,111.48	4,672.80	95,397.99	203,182.27
Commercial power service.....	74,593.06	373.28	315,915.47	390,881.81
Municipal power.....	34,714.54	396.14	34,889.77	70,000.45
Street lighting.....	20,871.57	775.00	29,293.62	50,940.19
Merchandise.....				
Miscellaneous.....	6,305.79	287.43	27,359.59	33,952.81
Total earnings.....	509,614.22	12,430.72	661,513.68	1,183,558.62
EXPENSES				
Power purchased.....	301,283.93	5,814.85	434,651.29	741,750.07
Substation operation.....	8,888.58		31,734.16	40,622.74
Substation maintenance.....	273.37		484.33	757.70
Distribution system, operation and maintenance.....	10,429.57	786.90	17,306.08	28,522.55
Line transformer maintenance.....	1,986.30	22.52	1,738.31	3,747.13
Meter maintenance.....	7,327.82	217.54	9,252.38	16,797.74
Consumers' premises expenses.....	7,567.85			7,567.85
Street lighting, operation and main- tenance.....	8,011.77	127.52	6,185.90	14,325.19
Promotion of business.....	24.75		2,365.32	2,390.07
Billing and collecting.....	22,533.17		17,501.74	40,034.91
General office, salaries and expenses.....	15,391.03	978.12	12,397.23	28,766.38
Undistributed expenses.....		37.36	12,988.45	13,025.81
Truck operation and maintenance.....			1,391.10	1,391.10
Interest.....	13,843.75			13,843.75
Sinking fund and principal payments on debentures.....	5,254.84			5,254.84
Depreciation.....	22,668.00	872.00	32,214.15	55,754.15
Other reserves.....	1,000.00	1,000.00	3,000.00	5,000.00
Total operating costs and fixed charges.....	426,484.73	9,856.81	583,210.44	1,019,551.98
Net surplus.....	83,129.49	2,573.91	78,303.24	164,006.64
Net loss.....				
NUMBER OF CONSUMERS				
Domestic service.....	7,506	261	6,339	14,106
Commercial light service.....	1,094	54	919	2,067
Power service.....	124	4	120	248
Total.....	8,724	319	7,378	16,421

“B”—Concluded

Hydro Municipalities for Year Ended December 31, 1945

NORTHERN ONTARIO DISTRICTS

Capreol 1,675	North Bay 15,827	Sioux Lookout 1,723	Sudbury 35,372	NORTHERN ONTARIO DISTRICTS SUMMARY	ALL SYSTEMS GRAND SUMMARY
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
9,518.93	100,905.09	19,809.60	251,336.75	381,570.37	15,543,145.28
3,636.06	58,933.77	13,220.79	131,517.70	207,308.32	8,150,923.90
.....	47,915.94	1,423.32	42,855.64	92,194.90	15,544,085.89
738.61	6,432.03	.....	11,648.39	18,819.03	2,134,062.24
1,260.00	11,308.66	1,900.50	28,556.89	43,026.05	1,922,281.13
.....	.....	.....	.....	.....	65,590.57
294.63	7,477.90	884.81	3,970.12	12,627.46	1,097,719.02
.....
15,448.23	232,973.39	37,239.02	469,885.49	755,546.13	44,457,808.03
.....
9,121.95	148,304.38	27,859.45	298,302.85	483,588.63	26,633,166.70
43.17	2,933.47	.....	7,384.20	10,360.84	654,305.46
.....	.....	.....	.....	.....	423,473.57
1,917.71	5,186.93	1,175.80	15,840.64	24,121.08	1,243,381.36
.....	519.86	20.10	2,616.97	3,156.93	155,240.82
257.26	3,632.07	258.21	9,219.34	13,366.88	470,203.18
.....	342.01	.....	470.50	812.51	581,603.20
.....
884.30	2,304.80	352.66	8,848.14	12,389.90	487,565.20
.....	36.91	.....	117.64	154.55	171,063.89
1,413.19	10,336.45	3,120.02	26,738.71	41,608.37	1,305,542.48
992.55	8,542.62	1,298.21	16,452.22	27,285.60	1,201,915.79
193.41	3,865.91	162.08	6,012.88	10,234.28	640,831.75
306.34	1,044.13	473.04	3,841.94	5,665.45	123,720.21
.....	3,166.67	.....	3,774.88	6,941.55	710,300.94
.....
.....	18,000.00	.....	11,247.14	29,247.14	1,255,825.57
1,023.00	17,966.00	517.00	24,995.00	44,501.00	2,736,906.64
.....
.....	.....	.....	22,280.57	22,280.57	1,216.822,19
.....
16,152.88	226,182.21	35,236.57	458,143.62	735,715.28	40,011,868.95
.....	6,791.18	2,002.45	11,741.87	19,830.85	4,445,939.08
704.65	.....	.....	.....	.....	.....
.....
.....
354	3,424	520	8,626	12,924	590,723
50	662	88	1,060	1,860	81,118
1	89	2	117	209	14,339
.....
405	4,175	610	9,803	14,993	686,180

STATEMENT "C"

Street Lighting Installation in Hydro Municipalities

Due to restrictions and changes resulting from orders of the Dominion Power Controller and economies effected by municipal co-operative action, which in many municipalities continued until the end of the war to modify the Street Lighting provided, statistics relating to Street Lighting are not presented in this year's Annual Report.

STATEMENT "D"

(pages 310 to 327)

**Statistics relating to the Supply of Electrical Energy to Consumers
in Ontario Urban Municipalities Served by
The Hydro-Electric Power Commission
for the year 1945**

STATEMENT "E"

(pages 328 to 345)

**Cost of Power to Municipalities and Rates to Consumers for
Domestic Service—Commercial Light Service—Power Service
in Ontario Urban Municipalities Served by
The Hydro-Electric Power Commission
for the year 1945**

STATEMENT "D"

Statistics Relating to the Supply of Electrical Energy to Consumers in Urban Municipalities Served by The Hydro-Electric Power Commission

Regarding the results of Hydro operation from the standpoint of the consumers, the following tabulation gives much useful and interesting information. For each main class of service in each urban municipal utility receiving power at cost from the Commission, Statement "D" lists the revenue, the consumption and the number of consumers, together with unit average costs and consumptions and other pertinent data.

The policy and practice of the Commission has been, and is, to make as widespread and beneficial a distribution of electrical energy as possible, and to extend to every community that can economically be reached by transmission lines, the benefit of electrical service. Even where, in certain localities, by reason of the distance from a source of supply or on account of the small quantity of power required by the municipality, the cost per horsepower to the municipality—and, consequently, the cost of service to the consumer—must unavoidably be higher than in more favourably situated communities, service has not been withheld when the consumers were able and willing to pay the cost.

The accompanying diagram summarizes graphically certain data of Statement "D" respecting the average cost to the consumer. It will be observed that the total amount of energy sold in municipalities where circumstances necessitate rates which result in the higher average costs to the consumer is relatively insignificant. With respect to power service, it should be noted that the statistics of Statement "D", and of the diagram, cover mainly retail power service supplied to the smaller industrial consumers. The average amount of power taken by the industrial consumers served by the municipalities is about 45 horsepower. The Commission serves certain large power consumers direct on behalf of the systems of municipalities.

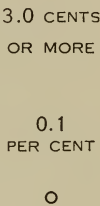
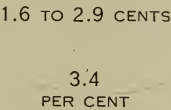
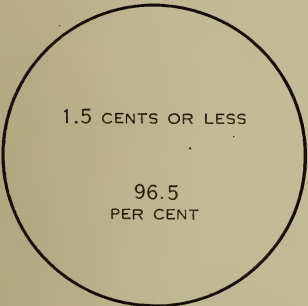
It should be kept in mind that the revenues reported in Statement "D", and used for purposes of calculating the net unit costs to the consumer, are the total revenues contributed by the consumers, and provide, in addition to the cost of power, sums specifically applicable to the retirement of capital, and also operating surplus which is in part applied to retirement of capital or extension of plant and is in part returned in cash to the consumers.

It should also be noted that average costs per kilowatt-hour or per horsepower if employed indiscriminately as a criterion by means of which to compare the rates or prices for electrical service in various municipalities, will give misleading results. The average cost per kilowatt-hour, as given in Statement "D" for respective classes of service in each municipality, are statistical results obtained by dividing the respective revenues by the aggregate kilowatt-hours sold. As such, the data reflect the combined influence of a number of factors, of which the rates or prices to consumers are but one factor. Owing to the varying influence of factors other than the rates, it is seldom found that in any two municipalities the average cost per kilowatt-hour to the consumers, even of the same classification, is in proportion to the respective rates for service. Instances even occur where for a class of consumers in one municipality, the average costs per kilowatt-hour are substantially lower than for the same class in another municipality, even though the rates are higher.

COST OF ELECTRICAL SERVICE TO CONSUMERS
IN MUNICIPALITIES SERVED BY
THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

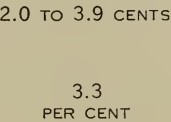
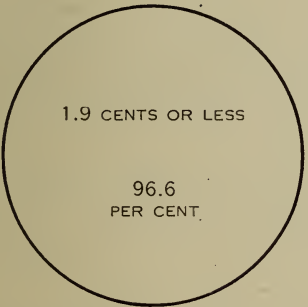
DOMESTIC SERVICE

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE TOTAL KILOWATT-HOURS SOLD FOR DOMESTIC SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER KILOWATT-HOUR:



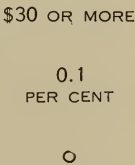
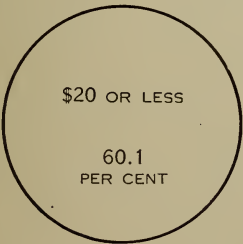
COMMERCIAL LIGHT SERVICE

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE TOTAL KILOWATT-HOURS SOLD FOR COMMERCIAL LIGHT SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER KILOWATT-HOUR:



POWER SERVICE SUPPLIED BY MUNICIPALITIES

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE AGGREGATE HORSEPOWER SOLD FOR POWER SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER HORSEPOWER PER YEAR:



With respect to domestic service, for example, instances may be observed where two municipalities have identical prices or rates for domestic service, but the average cost per kilowatt-hour to the consumer varies by as much as 50 per cent or more. Such variations are due principally to differences in the extent of utilization of the service for the operation of electric ranges, water heaters and other appliances, an indication of which is afforded by the statistics of average monthly consumption.

In the case of power service, average unit costs are still less reliable as an indication of the relative rates for service in different municipalities. In the case of hydro-electric power supplied to industries at cost, the rate schedules incorporate charges both for demand and for energy consumption, and thus, although the quantity of power taken by a consumer—that is, the demand as measured in horsepower—is the most important factor affecting costs and revenues, it is not the only one. The number of hours the power is used in the month or year—which, in conjunction with the power, determines the energy consumption, as measured in kilowatt-hours—also affects the costs and revenues. Consequently, in two municipalities charging the same rates for power service, the average cost per horsepower to the consumer will vary in accordance with the consumers' average number of hours use of the power per month. A greater average energy consumption per horsepower increases the average cost per horsepower and decreases the average cost per kilowatt-hour to the consumer, and *vice versa*.*

*In view of the fact that the data of Statement "D" have been misinterpreted in the making of certain comparisons as to the cost of electricity in various territories, it is desirable to add a word of caution respecting their significance. Essentially, the average cost or revenue per kilowatt-hour is *not a criterion of rates* even with similar forms of rate schedules and for the same class of service. Particularly is this true when revenues and consumptions of all classes of service and of all kinds of rate schedules, are indiscriminately lumped together in order to deduce a so-called "average cost or rate per kilowatt-hour" for all services.

In one community rates for each class of service, and the cost to every consumer in each class for any given service and consumption, may be substantially higher than in another community, and yet there may be in the former community a lower "average revenue per kilowatt-hour."

EXAMPLE.—Assume sales of electrical energy by two electric utilities, A and B, in each case 10,000,000 kilowatt-hours.

Class of service	CASE A Higher rates and lower revenues per kilowatt-hour			CASE B Lower rates and higher revenues per kilowatt-hour		
	Energy sales	Rate per kw-hr.	Revenue	Energy sales	Rate per kw-hr.	Revenue
	kw-hr.	cents	\$	kw-hr.	cents	\$
Residence.....	1,000,000	4	40,000	3,000,000	3	90,000
Power.....	9,000,000	1	90,000	7,000,000	0.75	52,500
Total.....	10,000,000	....	130,000	10,000,000	....	142,500
Average revenue....	1.3 cents per kw-hr.			1.425 cents per kw-hr.		

It will be observed that in Case A the rates both for residence and for power service are 33 per cent *higher* than in Case B, but the *average revenue* per kilowatt-hour is nearly 9 per cent less.

In this instance, the explanation lies in the *relative quantities* of energy sold to each class. Service to large power consumers entails a smaller capital investment in distribution lines and equipment and lower operating costs per kilowatt-hour delivered, than does service to domestic and to commercial light consumers, and even where the rates for all classes of service are low, produces a smaller average revenue per kilowatt-hour. Consequently, if one electrical utility as compared with another sells a larger proportion of its energy for power purposes, its "average revenue per kilowatt-hour" may easily be lower than that of the other utility even though its rates for every class of service are substantially higher.

Although the derived statistics of Statement "D" are valueless as a means of comparing the *rates* in one municipality with those in another, they nevertheless fulfil a function in affording a general measure of the *economy of service* to consumers in the co-operating Ontario municipalities—an economy that has resulted primarily from the low rates themselves, and secondarily from the extensive use of the service that has been made possible by the low rates.

Actual bills rendered to typical consumers for similar service under closely comparable circumstances constitute the best basis for making comparisons. In researches respecting rates to consumers therefore the actual *rates schedules* of Statement "E" should be employed and not statistics of average revenues per kilowatt-hour, as these are valueless for rate comparisons—and particularly so when all classifications of service are combined.

In any consideration of the relative economies of electrical service in the various municipalities—whether based on the actual rates for service as set forth in Statement "E", or on the derived statistics resulting from the rates and other factors as presented in Statement "D"—full account should be taken respectively of the influence upon costs of such factors as the size of the municipality, the distance from the source of power, the features of the power developments, the sizes and concentrations of adjacent markets for electricity, and the sizes and characters of the loads supplied under the various classifications by the local electrical utility to the consumers.

In Statement "D" account has been taken of the sizes of municipalities by grouping them according to whether they are (i) cities—over 10,000 population; (ii) towns of 2,000 to 10,000 population; or (iii) small towns less than 2,000 population, villages, and suburban areas in townships (which are comparable in respect of conditions of supply to the smaller towns and villages). The populations are also given, and the situation of any municipality with respect to transmission lines and power supplies may be ascertained by consulting the maps at the end of the Report.

A feature of the electrical service in Ontario municipalities served by The Hydro-Electric Power Commission is the strikingly large average annual consumption per domestic consumer. Of the 94 cities and towns with populations of 2,000 or more—in which over 85 per cent of the domestic consumers of the undertaking are served—no less than 93 have an average annual consumption per domestic consumer in excess of 1,000 kilowatt-hours; of these, 77 have an average annual consumption per domestic consumer in excess of 1,500 kilowatt-hours, 51 in excess of 2,000 kilowatt-hours, and 12 in excess of 3,000 kilowatt-hours. In addition 128 smaller urban municipalities have an average annual consumption per domestic consumer exceeding 1,000 kilowatt-hours, including 31 in excess of 2,000 kilowatt-hours.

The high average consumption for domestic service results essentially from the policy of the undertaking in providing service "at cost"; the rate schedules designed according to this principle automatically encourage liberal use of the service. Under the standard rate schedules employed by Ontario municipalities, follow-up rates of 0.8 to 1.2 cents (less 10 per cent) are in common use, and as a rule even where the higher initial rates per kilowatt-hour obtain, it is only necessary for the domestic consumer to reach a monthly charge of from \$2.00 to \$3.00 to obtain the benefit of a follow-up rate of 1.8 cents net or less. The cost of electric cooking is thus within reach of most of the domestic consumers in Ontario. Electric water heating is also encouraged by low flat rates for continuous heaters and by installation of equipment without capital cost to the consumer. In 1941, war conditions made necessary the suspension of new installations for water heating.

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers
For Domestic Service, for Commercial Light Service

Group I—CITIES

Municipality	System	Popula- tion	Domestic service					Average monthly consumption kw-hr.	Average monthly bill	Net cost per kw-hr.
			Revenue	Consumption	Number of con- sumers					
			\$	c.	kw-hr.		kw-hr.	\$	c.	cents
Belleville.....	S.O.	15,642	106,469.17	13,789,061	4,028		285	2.20	0.77	
Brantford.....	S.O.	34,372	185,947.15	19,162,966	8,499		188	1.82	0.97	
Chatham.....	S.O.	17,807	105,408.18	7,179,637	4,648		129	1.89	1.47	
Fort William.....	T.B.	28,642	270,017.78	44,480,694	7,506		494	3.00	0.61	
Galt.....	S.O.	14,693	117,755.17	9,980,273	4,356		191	2.25	1.18	
Guelph.....	S.O.	23,225	130,221.34	12,413,988	5,759		180	1.88	1.04	
Hamilton.....	S.O.	174,222	989,413.53	97,132,631	44,209		183	1.87	1.02	
Kingston.....	S.O.	32,463	204,378.27	23,812,268	8,023		247	2.12	0.86	
Kitchener.....	S.O.	36,165	246,982.51	23,975,551	8,964		223	2.30	1.03	
London.....	S.O.	81,158	596,268.51	63,128,783	20,979		250	2.37	0.94	
Niagara Falls.....	S.O.	19,138	134,099.25	14,793,375	5,006		246	2.23	0.94	
North Bay.....	N.O.P.	15,827	100,905.09	8,285,704	3,424		202	2.46	1.22	
Oshawa.....	S.O.	26,824	244,828.75	18,250,068	6,971		218	2.93	1.34	
Ottawa.....	S.O.	163,829	643,752.25	85,883,484	15,805		453	3.39	0.75	
Owen Sound.....	S.O.	13,402	77,440.17	6,350,035	3,726		142	1.73	1.22	
Peterborough.....	S.O.	27,871	203,373.29	22,520,352	7,695		244	2.20	0.90	
Port Arthur.....	T.B.	24,469	158,657.24	20,683,880	6,339		272	2.09	0.77	
St. Catharines.....	S.O.	34,541	194,040.79	20,015,719	8,887		188	1.82	0.97	
St. Thomas.....	S.O.	17,773	147,175.51	15,696,980	4,737		276	2.59	0.94	
Sarnia.....	S.O.	20,082	126,014.43	9,444,780	5,518		143	1.90	1.33	
Stratford.....	S.O.	17,161	150,950.81	13,080,311	4,604		237	2.73	1.15	
Sudbury.....	N.O.P.	35,372	251,336.75	19,224,053	8,626		186	2.43	1.31	
Toronto.....	S.O.	676,887	4,189,689.02	421,550,239	154,966		227	2.25	0.99	
Toronto D.C. & 60 cycle*			8,938.28	308,810	146		176	5.09	2.89	
Welland.....	S.O.	15,780	57,133.16	5,409,229	3,283		137	1.45	1.06	
Windsor.....	S.O.	117,031	735,692.16	64,324,475	27,274		197	2.25	1.14	
Woodstock.....	S.O.	12,916	92,155.55	9,071,790	3,478		217	2.21	1.02	

* This—with the exception of a relatively small D.C. power load—is a special service not created by The Hydro-Electric Power Commission but acquired through the purchase of a privately owned company. It does not include street railway power.

GROUP II—TOWNS

Almonte.....	S.O.	2,136	12,978.29	1,453,502	674	179	1.60	0.89		
Amherstburg.....	S.O.	2,709	24,534.29	2,201,466	761	241	2.69	1.11		
Arnprior.....	S.O.	4,049	19,050.58	1,302,773	915	119	1.74	1.46		
Aurora.....	S.O.	2,990	23,618.08	1,759,242	832	176	2.37	1.34		
Aylmer.....	S.O.	2,474	16,594.70	1,459,420	769	158	1.80	1.14		
Barrie.....	SO..	10,469	88,899.53	8,156,650	2,550	267	2.91	1.09		
Bowmanville.....	S.O.	3,820	32,981.70	2,403,557	1,143	175	2.40	1.37		
Brampton.....	S.O.	6,157	50,548.34	4,671,245	1,659	235	2.54	1.08		
Brockville.....	S.O.	11,112	68,171.22	6,641,554	3,151	176	1.80	1.03		
Carleton Place.....	S.O.	4,217	23,357.89	1,762,575	1,098	134	1.77	1.33		
Clinton.....	S.O.	2,037	14,254.13	1,170,389	599	163	1.98	1.21		
Cobourg.....	S.O.	5,022	40,346.96	2,792,746	1,486	157	2.26	1.44		
Collingwood.....	S.O.	6,318	36,454.92	2,573,968	1,666	129	1.82	1.42		
Delhi.....	S.O.	2,063	14,193.92	811,335	635	106	1.86	1.75		
Dundas.....	S.O.	5,588	28,845.55	2,147,960	1,472	122	1.63	1.34		

“D”

in Ontario Municipalities Served by the Commission
and for Power Service during the year 1945

Population, 10,000 or more

Commercial Light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average monthly horse- power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
61,602.72	6,125,335	640	798	8.02	1.01	57,565.67	108	3,824.2	4,776
94,151.76	9,627,388	1,313	611	5.98	0.98	310,027.83	222	18,293.0	10,034
113,411.10	8,008,962	822	812	11.50	1.42	93,951.11	120	4,949.5	5,590
103,111.48	10,837,833	1,094	826	7.85	0.95	109,307.60	124	6,710.7	8,724
67,359.36	4,225,267	501	703	11.20	1.59	166,731.31	123	9,365.4	4,980
59,920.86	5,146,352	806	532	6.20	1.17	154,452.05	153	9,510.4	6,718
569,569.55	52,417,748	5,565	785	8.53	1.09	2,838,610.50	1,078	157,349.2	50,852
136,129.99	13,076,154	1,093	997	10.38	1.04	180,202.86	180	10,040.6	9,296
147,553.68	10,218,240	1,087	783	11.31	1.44	465,091.45	285	23,301.2	10,336
233,849.96	20,557,618	2,365	724	8.24	1.14	550,821.07	447	31,752.0	23,791
74,326.74	6,699,066	750	744	8.26	1.11	114,965.91	116	6,927.9	5,872
58,933.77	3,897,018	662	491	7.42	1.51	54,347.97	89	2,245.9	4,175
82,963.58	4,697,089	727	538	9.51	1.77	326,198.79	119	14,700.7	7,817
314,712.83	27,716,221	1,495	1,545	17.54	1.14	86,819.07	207	5,756.1	17,507
52,609.29	3,612,580	555	542	7.90	1.46	86,818.46	105	4,790.2	4,386
97,958.12	7,222,900	984	668	9.06	1.40	198,631.98	177	10,862.0	8,856
95,397.99	8,926,699	919	809	8.65	1.07	350,805.24	120	24,153.7	7,378
107,842.60	10,014,740	1,094	763	8.21	1.08	417,186.72	216	24,920.5	10,197
62,055.58	5,484,316	618	740	8.37	1.13	75,683.89	86	4,643.2	5,441
67,465.29	4,987,126	634	656	8.87	1.35	65,538.21	90	3,437.7	6,242
59,990.78	3,786,393	604	522	8.28	1.59	64,542.84	121	3,626.0	5,329
131,517.70	7,697,863	1,060	605	10.34	1.71	54,504.03	117	2,355.9	9,803
2,879,278.15	228,118,378	24,040	791	9.97	1.26	4,825,770.28	4,576	229,911.0	183,582
48,875.00	1,293,230	290	372	14.35	3.86	276,178.84	711	10,762.0	1,147
44,419.39	4,017,814	468	715	7.91	1.11	217,446.24	93	17,391.2	3,844
427,653.53	33,252,673	3,367	823	10.58	1.29	730,778.42	513	41,064.6	31,154
58,545.57	4,732,105	481	820	10.14	1.24	112,769.38	101	6,853.0	4,060

NOTE—The above group of 26 cities utilizes about 80 per cent of the power distributed by the Commission to Ontario municipalities.

†Does not include street railway power.

of Population, 2,000 or more

5,105.27	403,928	101	333	4.21	1.26	6,262.37	23	386.0	798
9,351.67	656,170	140	391	5.57	1.43	10,697.53	15	475.9	916
9,589.62	483,819	164	246	4.87	1.98	19,610.58	22	1,059.1	1,101
8,003.82	574,270	117	409	5.70	1.39	17,555.74	20	852.1	969
12,463.86	933,305	156	499	6.66	1.34	10,177.13	19	618.4	944
47,943.47	3,290,737	426	644	9.38	1.46	34,155.12	61	1,801.5	3,037
11,040.91	619,319	170	304	5.41	1.78	62,684.94	29	2,729.6	1,342
21,114.08	1,441,861	259	464	6.79	1.46	26,219.44	59	1,464.0	1,977
31,579.60	2,608,423	407	534	6.47	1.21	60,268.84	78	3,502.0	3,636
10,123.66	520,560	181	240	4.66	1.94	28,850.21	18	1,585.5	1,289
8,298.01	479,282	125	320	5.53	1.73	6,332.62	19	343.6	743
21,930.06	1,238,968	250	413	7.31	1.77	29,978.70	50	1,578.7	1,786
15,782.93	968,335	208	388	6.32	1.63	39,610.84	48	2,303.7	1,922
11,818.58	557,150	159	292	6.19	2.12	6,926.89	9	278.5	803
17,270.77	1,132,325	200	472	7.20	1.53	42,879.43	39	2,711.6	1,711

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers
For Domestic Service, for Commercial Light Service

Group II—TOWNS

Municipality	System	Population	Domestic service				
			Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill
			\$ c.	kw-hr.		kw-hr.	\$ c. cents
Dunnville.....	S.O.	4,305	15,874.40	1,110,507	1,082	86	1.22 1.42
Elmira.....	S.O.	2,186	15,514.94	1,293,500	568	190	2.28 1.20
Fergus.....	S.O.	2,624	19,659.68	1,494,960	770	162	2.13 1.31
Forest Hill.....	S.O.	13,484	202,577.38	19,751,575	3,728	442	4.53 1.03
Georgetown.....	S.O.	2,448	23,719.53	1,913,513	849	188	2.33 1.24
Goderich.....	S.O.	4,987	35,861.24	2,626,257	1,376	159	2.17 1.36
Gravenhurst.....	S.O.	2,405	12,587.89	1,258,803	619	169	1.69 1.00
Hanover.....	S.O.	3,165	22,637.91	1,622,032	861	157	2.19 1.40
Hespeler.....	S.O.	3,021	18,518.05	1,365,367	827	140	1.90 1.36
Humberstone.....	S.O.	3,287	12,342.97	792,660	753	88	1.37 1.56
Huntsville.....	S.O.	2,810	17,529.94	1,594,038	726	183	2.01 1.10
Ingersoll.....	S.O.	5,823	35,725.02	2,994,438	1,568	159	1.90 1.19
Kincardine.....	S.O.	2,189	15,664.70	836,140	755	92	1.73 1.87
Kingsville.....	S.O.	2,335	15,624.96	1,068,081	650	137	2.00 1.46
Leamington.....	S.O.	5,456	30,070.99	2,324,515	1,722	112	1.46 1.29
Lindsay.....	S.O.	7,680	51,176.92	4,246,440	2,318	153	1.84 1.21
Listowel.....	S.O.	3,209	18,533.71	1,408,089	819	143	1.89 1.32
Long Branch.....	S.O.	5,253	36,283.32	3,132,649	1,618	162	1.88 1.16
Meaford.....	S.O.	2,671	15,518.41	929,355	799	97	1.62 1.67
Merritton.....	S.O.	3,450	20,727.10	1,753,288	977	150	1.77 1.18
Midland.....	S.O.	6,636	41,158.39	3,278,550	1,743	157	1.97 1.26
Mimico.....	S.O.	8,400	69,460.98	6,537,303	2,344	232	2.47 1.06
Napanee.....	S.O.	3,298	28,280.00	2,292,909	920	208	2.56 1.23
New Toronto.....	S.O.	8,374	48,282.00	4,238,189	2,064	171	1.95 1.14
Orangeville.....	S.O.	2,559	17,819.41	1,155,200	750	128	1.98 1.54
Paris.....	S.O.	4,524	27,755.38	2,369,090	1,220	162	1.90 1.17
Penetanguishene.....	S.O.	4,018	14,088.87	866,532	838	86	1.40 1.63
Perth.....	S.O.	4,230	29,726.33	2,255,953	1,119	168	2.21 1.32
Petrolia.....	S.O.	2,684	14,771.95	869,871	825	88	1.49 1.70
Picton.....	S.O.	3,690	25,143.91	2,201,950	1,200	153	1.75 1.14
Port Colborne.....	S.O.	7,187	32,928.51	2,069,470	1,682	103	1.63 1.58
Port Credit.....	S.O.	2,249	19,699.45	2,016,105	652	258	2.52 0.98
Port Dover.....	S.O.	2,001	11,580.25	739,283	781	79	1.24 1.57
Port Hope.....	S.O.	4,881	35,697.20	3,108,201	1,444	179	2.06 1.15
Prescott.....	S.O.	3,318	25,061.42	1,993,650	827	200	2.53 1.26
Preston.....	S.O.	6,707	41,118.06	3,442,798	1,701	169	2.01 1.19
Renfrew.....	S.O.	5,673	29,038.29	1,895,357	1,366	116	1.77 1.53
Riverside.....	S.O.	5,686	44,340.08	2,955,141	1,629	151	2.27 1.50
St. Marys.....	S.O.	4,005	31,465.74	2,298,443	1,084	177	2.42 1.37
Simcoe.....	S.O.	6,047	29,437.47	2,117,374	1,691	104	1.45 1.39
Smiths Falls.....	S.O.	7,708	53,345.30	4,761,565	2,033	195	2.19 1.12
Strathroy.....	S.O.	3,001	25,120.13	2,072,626	890	194	2.35 1.21
Swansea.....	S.O.	7,110	66,639.66	6,764,893	2,109	267	2.63 0.99
Tecumseh.....	S.O.	2,794	15,445.30	845,230	727	97	1.77 1.83
Thorold.....	S.O.	5,517	22,166.27	1,972,230	1,286	128	1.44 1.13
Tillsonburg.....	S.O.	4,031	22,250.73	1,638,531	1,278	107	1.45 1.36
Trenton.....	S.O.	9,849	41,473.91	4,629,485	1,880	205	1.84 0.90
Walkerton.....	S.O.	2,723	20,453.59	1,277,982	701	152	2.43 1.60
Wallaceburg.....	S.O.	5,088	27,577.27	1,670,295	1,520	92	1.51 1.65
Waterloo.....	S.O.	9,460	69,958.26	8,251,975	2,358	292	2.47 0.85
Weston.....	S.O.	6,333	60,332.57	6,994,256	1,737	336	2.89 0.86
Whitby.....	S.O.	4,641	32,807.57	2,546,928	1,065	199	2.57 1.29
Wingham.....	S.O.	2,051	14,701.67	866,725	597	121	2.05 1.70

“D”—Continued

in Ontario Municipalities Served by the Commission
and for Power Service during the year 1945

population 2,000 or more

Commercial Light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horse-power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
14,468.81	1,064,268	226	392	5.34	1.36	20,159.31	28	1,284.6	1,336
9,513.28	551,044	126	364	6.29	1.73	25,402.57	26	1,108.3	720
8,752.76	498,340	120	346	6.08	1.76	19,748.25	14	946.8	904
29,847.52	1,961,087	254	643	9.79	1.52	3,323.71	27	200.3	4,009
9,435.04	547,158	129	353	6.09	1.73	39,825.33	26	1,854.0	1,004
17,844.67	974,711	263	309	5.65	1.83	21,843.37	23	1,033.0	1,662
13,069.58	1,305,208	108	1,007	10.08	1.00	17,659.34	16	956.3	743
9,919.20	541,659	138	327	5.99	1.83	22,569.17	22	1,028.5	1,021
7,340.60	435,499	90	403	6.80	1.69	58,387.54	29	2,827.8	946
4,872.97	326,744	79	341	5.09	1.49	6,932.72	12	413.3	844
12,887.76	922,120	133	578	8.08	1.40	15,602.92	19	226.3	878
20,389.70	1,548,480	227	568	7.49	1.32	46,917.29	45	2,721.4	1,840
8,712.46	337,622	131	215	5.54	2.58	13,776.18	18	523.2	904
10,714.73	653,335	164	332	5.44	1.64	6,055.44	24	363.4	838
20,899.77	1,481,665	299	413	5.82	1.41	27,737.51	37	1,475.5	2,058
31,246.35	1,894,191	361	437	7.21	1.65	55,202.92	70	2,672.7	2,749
11,797.44	734,303	164	373	5.99	1.61	20,561.55	27	1,083.2	1,010
6,681.45	455,105	111	342	5.02	1.47	13,299.92	10	637.6	1,739
9,842.69	521,235	161	270	5.09	1.89	12,042.33	20	584.8	980
5,000.12	368,450	62	495	6.72	1.36	220,741.49	17	11,586.5	1,056
20,438.38	1,316,099	211	520	8.07	1.55	84,821.72	53	4,881.5	2,015
13,490.69	1,028,264	165	519	6.81	1.31	16,627.34	27	761.7	2,536
19,373.20	1,050,963	215	407	7.51	1.84	12,133.10	24	704.7	1,159
21,226.75	1,867,666	222	701	7.97	1.13	246,122.85	36	12,003.0	2,322
12,509.69	684,117	155	368	6.73	1.83	7,205.21	27	427.6	932
10,930.90	755,551	193	326	4.72	1.45	25,465.51	27	1,561.9	1,440
8,800.13	498,051	112	371	6.55	1.77	24,320.34	21	1,068.4	971
17,787.25	1,102,347	195	471	7.60	1.61	17,960.10	30	1,016.2	1,344
9,240.77	471,977	149	264	5.17	1.96	25,522.17	55	972.5	1,029
15,834.20	1,140,760	212	448	6.22	1.39	8,481.53	35	572.4	1,447
21,126.07	1,300,226	238	455	7.40	1.63	20,885.98	25	1,245.2	1,945
7,274.31	490,540	89	459	6.81	1.48	6,099.69	14	280.8	755
5,799.05	396,204	125	264	3.87	1.46	5,871.07	16	323.0	922
16,068.26	991,794	202	409	6.63	1.62	41,667.63	41	2,038.9	1,687
12,605.67	725,096	152	398	6.91	1.74	14,240.57	23	551.8	1,002
22,201.14	1,453,849	226	536	8.19	1.53	60,763.32	51	3,599.7	1,978
20,617.28	1,512,664	227	555	7.57	1.36	24,219.74	58	1,175.8	1,651
6,469.11	368,626	72	427	7.49	1.75	8,113.75	13	335.3	1,714
12,621.53	641,085	174	307	6.04	1.97	24,633.56	40	1,148.5	1,298
32,888.24	2,760,273	403	571	6.80	1.19	33,989.80	49	1,862.2	2,143
19,030.33	1,334,015	268	415	5.92	1.43	31,297.63	38	1,638.8	2,339
13,121.29	803,564	175	382	6.25	1.63	18,319.17	32	1,150.6	1,097
10,050.93	656,030	97	564	8.63	1.53	25,605.85	16	1,262.8	2,222
5,244.16	297,679	58	428	7.53	1.76	1,690.29	3	84.4	788
9,094.35	897,433	163	459	4.65	1.01	57,220.98	18	2,792.4	1,467
21,350.11	1,605,035	262	511	6.79	1.33	17,490.35	38	1,023.3	1,578
21,646.76	1,711,805	277	515	6.51	1.26	89,243.71	55	4,373.4	2,212
13,197.74	659,195	137	401	8.03	2.00	11,290.50	19	428.7	857
19,208.22	1,270,881	237	447	6.75	1.51	130,977.83	52	5,572.6	1,809
27,010.74	2,186,530	267	682	8.43	1.24	75,805.04	71	3,983.1	2,696
14,704.78	1,288,277	192	559	6.38	1.14	71,267.61	33	3,933.8	1,962
14,363.73	928,515	167	463	7.17	1.55	20,373.14	28	907.3	1,260
10,005.23	459,700	194	197	4.30	2.18	19,076.19	24	751.1	815

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers

For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

NOTE—The power used in the smaller places and rural districts is, and possibly must always be, a relatively small proportion of the power distributed by the Commission. Thus, the power used by the small municipalities in the following group, which includes small towns, villages and certain suburban areas in townships, is less than 10 per cent of the power distributed by the Commission to Ontario municipalities. This relatively small proportion of the total power,

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			\$ c.	kw-hr.		kw-hr.	\$ c.	cents
Acton.....	S.O.	1,876	14,980.46	1,200,073	552	181	2.26	1.2
Agincourt.....	S.O.	P.V.	6,231.92	495,515	173	239	3.00	1.3
Ailsa Craig.....	S.O.	434	2,880.69	181,850	147	103	1.63	1.6
Alexandria.....	S.O.	1,904	7,694.17	343,988	456	63	1.41	2.2
Alliston.....	S.O.	1,542	12,779.34	737,917	448	137	2.38	1.7
Alvinston.....	S.O.	620	3,515.97	116,330	205	47	1.43	3.0
Ancaster Twp.....	S.O.	.....	13,769.27	1,006,481	396	212	2.90	1.4
Apple Hill.....	S.O.	P.V.	1,369.33	36,528	70	43	1.63	3.7
Arkona.....	S.O.	376	2,827.70	115,164	118	81	2.00	2.5
Arthur.....	S.O.	836	5,532.37	210,587	240	73	1.92	2.6
Athens.....	S.O.	643	3,847.25	107,485	180	50	1.78	3.6
Ayr.....	S.O.	718	6,278.65	412,560	232	148	2.26	1.5
Baden.....	S.O.	P.V.	4,231.28	343,790	170	169	2.07	1.2
Bath.....	S.O.	296	2,768.95	82,890	67	103	3.44	3.3
Beachville.....	S.O.	P.V.	3,985.18	268,517	166	135	2.00	1.5
Beamsville.....	S.O.	1,306	11,454.17	1,187,156	416	237	2.30	1.0
Beaverton.....	S.O.	786	7,855.51	469,881	341	115	1.92	1.7
Beeton.....	S.O.	542	3,333.11	125,630	152	69	1.83	2.7
Belle River.....	S.O.	845	6,454.32	316,109	336	78	1.60	2.0
Blenheim.....	S.O.	1,873	9,907.09	640,242	568	94	1.45	1.5
Bloomfield.....	S.O.	618	3,217.86	187,609	185	85	1.45	1.7
Blyth.....	S.O.	632	3,876.16	191,908	186	86	1.74	2.0
Bolton.....	S.O.	609	4,788.99	335,458	191	146	2.09	1.4
Bothwell.....	S.O.	605	2,757.85	177,020	190	78	1.21	1.6
Bradford.....	S.O.	1,034	7,357.12	354,414	294	100	2.09	2.1
Braeside.....	S.O.	367	1,529.91	65,902	92	60	1.39	2.3
Brantford Twp.....	S.O.	.....	39,878.27	2,837,629	1,626	145	2.04	1.4
Brechin.....	S.O.	P.V.	1,446.38	46,856	58	67	2.08	3.1
Bridgeport.....	S.O.	P.V.	5,208.48	302,320	184	137	2.36	1.7
Brigden.....	S.O.	P.V.	2,181.00	91,240	125	61	1.45	2.4
Brighton.....	S.O.	1,581	12,056.12	526,538	576	76	1.74	2.3
Brussels.....	S.O.	730	4,944.31	191,550	254	63	1.62	2.6
Burford.....	S.O.	P.V.	5,459.42	466,257	237	164	1.92	1.2
Burgessville.....	S.O.	P.V.	1,812.01	90,253	62	121	2.44	2.0
Caledonia.....	S.O.	1,395	7,269.92	441,511	458	80	1.32	1.7
Campbellville.....	S.O.	P.V.	1,344.88	76,230	53	120	2.11	1.8
Cannington.....	S.O.	718	5,729.46	276,680	273	84	1.75	2.1
Capreol.....	S.O.	1,675	9,518.93	479,130	354	113	2.24	2.0
Cardinal.....	S.O.	1,641	9,470.35	685,845	396	144	1.99	1.4
Cayuga.....	S.O.	652	4,345.97	158,892	193	69	1.88	2.7

“D”—Continued

in Ontario Municipalities Served by the Commission

and for Power Service during the year 1945

VILLAGES AND SUBURBAN AREAS

however, exerts upon the economic life of the Province a most beneficial influence. It should further be appreciated that about 35 per cent of these municipalities obtain their power, not from Niagara, but from relatively small water-power developments throughout the Province, or from purchased power. The net cost per kilowatt-hour given in the table is the cost inclusive of all charges. Consult also introduction to Statement “D”, page 310.

Commercial Light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horse-power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
6,168.47	457,479	86	443	5.98	1.3	31,421.99	19	1,414.0	657
1,533.34	59,619	31	160	4.12	2.6	775.70	3	47.0	207
1,111.79	57,677	33	146	2.81	1.9	1,711.11	4	74.2	184
4,779.17	209,201	103	169	3.87	2.3	4,932.11	16	165.5	575
8,293.81	355,692	125	237	5.53	2.3	4,917.60	20	238.0	593
1,902.03	77,102	51	126	3.11	2.5	1,398.65	5	51.1	261
4,819.57	244,692	45	453	8.93	2.0	970.89	9	64.4	450
859.17	35,980	24	125	2.98	2.4	581.70	2	25.6	96
1,358.25	44,832	34	110	3.33	3.0	287.89	2	8.7	154
5,051.03	158,085	92	143	4.58	3.2	1,772.41	7	101.4	339
1,748.68	46,656	43	90	3.39	3.7	816.96	1	34.0	224
2,312.50	115,066	46	208	4.19	2.0	900.06	7	36.2	285
2,044.72	134,642	32	351	5.32	1.5	11,404.79	3	501.0	205
677.38	18,390	12	128	4.70	3.7				79
568.94	27,018	21	107	2.26	2.1	19,136.43	4	709.1	191
4,640.64	293,418	71	344	5.45	1.6	2,293.87	5	139.6	492
2,630.85	142,060	66	179	3.32	1.9	1,265.35	8	70.1	415
1,857.05	58,265	33	147	4.69	3.2	418.80	4	21.7	189
3,442.94	198,693	48	345	5.98	1.7	1,298.63	4	40.9	388
9,432.86	597,416	144	346	5.46	1.6	8,855.96	17	416.3	729
2,219.44	100,613	41	205	4.51	2.2	1,276.04	7	65.6	233
2,030.55	81,330	46	147	3.68	2.5	788.05	5	49.9	237
1,907.02	91,388	45	169	3.53	2.1	3,465.26	11	130.8	247
2,089.60	112,030	55	170	3.17	1.9	1,150.36	9	108.1	254
4,704.73	153,631	76	168	5.16	3.1	5,667.51	11	247.0	381
333.49	8,179	9	76	3.09	4.1	5,497.20	2	415.4	103
5,768.56	351,195	68	430	7.07	1.6	7,280.95	7	312.3	1,701
839.94	25,949	21	103	3.33	3.2	743.89	2	31.0	81
1,117.90	54,831	21	218	4.44	2.0	1,193.29	4	56.1	209
1,864.03	82,750	41	168	3.79	2.3	940.71	4	29.1	170
4,699.42	259,761	99	219	3.96	1.8	4,344.74	10	246.0	685
3,321.78	114,920	59	162	4.69	2.9	1,409.88	8	63.1	321
1,898.23	112,629	38	247	4.16	1.7	1,609.21	5	106.7	280
594.26	16,477	17	81	2.91	3.6	258.78	2	14.4	81
5,582.42	416,533	104	334	4.47	1.3	3,300.59	13	177.5	575
500.49	23,479	11	178	3.79	2.1	366.15	1	8.5	65
2,665.65	100,855	61	138	3.64	2.6	1,840.94	9	102.2	343
3,636.06	178,480	50	297	6.06	2.0	738.61	1	25.0	405
2,258.07	136,200	54	210	3.48	1.7	270.00	2	18.0	452
3,995.65	114,547	71	134	4.69	3.5	1,780.03	7	92.1	271

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers
For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			\$ c.	kw-hr.		kw-hr.	\$ c.	cents
Chatsworth.....	S.O.	323	2,376.21	131,345	113	97	1.75	1.8
Chesley.....	S.O.	1,550	10,209.85	722,530	460	131	1.85	1.4
Chesterville.....	S.O.	1,050	5,499.67	432,165	258	140	1.78	1.3
Chippawa.....	S.O.	1,251	8,429.97	821,593	363	189	1.94	1.0
Clifford.....	S.O.	436	2,905.59	141,649	140	84	1.73	2.1
Cobden.....	S.O.	627	2,897.23	160,679	168	80	1.44	1.8
Colborne.....	S.O.	872	7,533.89	396,465	284	116	2.21	1.9
Coldwater.....	S.O.	580	4,068.81	253,083	160	132	2.12	1.6
Comber.....	S.O.	P.V.	2,193.78	97,510	120	68	1.52	2.3
Cookstown.....	S.O.	P.V.	2,576.00	89,705	124	60	1.73	2.9
Cottam.....	S.O.	P.V.	2,691.52	129,245	139	77	1.61	2.1
Courtright.....	S.O.	357	1,692.48	68,489	98	58	1.44	2.5
Creemore.....	S.O.	661	3,628.72	164,200	181	76	1.67	2.2
Dashwood.....	S.O.	P.V.	2,371.14	114,527	105	91	1.88	2.1
Delaware.....	S.O.	P.V.	2,253.48	159,424	67	198	2.80	1.4
Deseronto.....	S.O.	1,100	9,367.25	437,449	403	90	1.94	2.1
Dorchester.....	S.O.	P.V.	3,014.36	187,890	161	97	1.56	1.6
Drayton.....	S.O.	518	3,970.14	141,725	173	68	1.91	2.8
Dresden.....	S.O.	1,532	8,314.57	463,424	493	78	1.41	1.8
Drumbo.....	S.O.	P.V.	2,642.30	143,011	94	127	2.34	1.8
Dublin.....	S.O.	P.V.	1,531.92	75,065	62	101	2.06	2.0
Dundalk.....	S.O.	650	4,257.55	228,485	209	91	1.70	1.9
Durham.....	S.O.	1,957	8,349.63	522,595	477	91	1.46	1.6
Dutton.....	S.O.	791	3,389.28	233,500	240	81	1.18	1.5
East York Twp.....	S.O.	.....	290,562.69	21,848,176	12,330	148	1.96	1.3
Elmvale.....	S.O.	P.V.	3,751.98	217,390	198	91	1.58	1.7
Elmwood.....	S.O.	P.V.	1,302.51	49,947	75	55	1.45	2.6
Elora.....	S.O.	1,167	8,871.07	542,183	361	125	2.05	1.6
Embro.....	S.O.	445	4,262.97	250,305	147	142	2.42	1.7
Erieau.....	S.O.	228	4,696.73	224,895	208	90	1.88	2.1
Erie Beach.....	S.O.	22	1,450.14	35,528	81	37	1.49	4.1
Essex.....	S.O.	1,986	9,821.36	641,060	539	99	1.52	1.5
Etobicoke Twp.....	S.O.	.....	238,581.94	23,458,806	6,644	294	2.99	1.0
Exeter.....	S.O.	1,794	15,831.36	1,244,003	548	189	2.41	1.3
Finch.....	S.O.	393	2,774.23	125,886	120	87	1.93	2.2
Flesherton.....	S.O.	341	2,218.09	103,970	127	68	1.46	2.1
Fonthill.....	S.O.	1,009	6,891.57	437,018	316	116	1.83	1.6
Forest.....	S.O.	1,573	14,895.03	1,024,580	530	161	2.34	1.5
Glencoe.....	S.O.	752	4,509.79	209,182	244	71	1.54	2.2
Grand Valley.....	S.O.	576	3,375.71	158,270	189	70	1.49	2.1

“D”—Continued

in Ontario Municipalities Served by the Commission
and for Power Service during the year 1945

VILLAGES AND SUBURBAN AREAS

Commercial Light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average monthly horse- power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
1,351.71	46,960	26	150	4.33	2.9				139
5,918.45	355,520	96	309	5.14	1.7	7,542.10	22	415.0	578
4,048.94	215,609	68	264	4.96	1.9	3,236.52	4	142.5	330
2,196.58	176,378	51	288	3.59	1.2	1,032.08	1	35.8	415
1,853.83	78,897	31	212	4.98	2.3	643.68	2	20.2	173
2,284.56	87,430	48	152	3.97	2.6	2,264.21	3	70.9	219
4,631.55	175,585	71	206	5.44	2.6	1,189.09	6	57.4	361
1,851.56	61,123	48	106	3.21	3.0	3,448.86	3	127.8	211
1,732.88	70,077	42	139	3.44	2.5	2,265.25	4	104.7	166
1,288.76	33,166	31	89	3.46	3.9	1,526.76	4	74.2	159
1,374.83	87,965	29	253	3.95	1.6	595.56	5	33.4	173
730.79	34,708	21	138	2.90	2.1	974.64	1	12.5	120
2,016.26	99,577	53	156	3.17	2.0	1,230.06	3	77.2	237
1,246.62	57,153	28	170	3.71	2.2	1,341.24	3	57.9	136
773.71	31,737	15	176	4.30	2.4				82
4,005.52	166,570	77	180	4.34	2.4	2,103.62	8	83.3	488
979.66	43,636	28	130	2.92	2.2	563.78	1	19.5	190
2,396.71	83,718	61	114	3.27	2.9	1,332.54	4	66.1	238
6,681.57	421,942	130	270	4.28	1.6	6,400.23	16	360.1	639
1,106.43	44,849	29	127	2.94	2.5	724.89	1	33.8	124
1,122.85	33,157	26	106	3.60	3.4	1,508.51	2	69.6	90
3,384.27	129,722	73	148	3.86	2.6	3,306.47	6	179.5	288
5,147.78	266,340	104	213	4.12	1.9	4,633.68	12	225.9	593
2,646.41	159,910	65	205	3.39	1.7	3,788.01	11	207.5	316
31,258.20	2,206,211	523	352	4.98	1.4	49,072.77	45	2,236.5	12,898
1,703.86	74,130	50	124	2.84	2.3	3,560.84	8	161.0	256
699.95	20,772	24	72	2.43	3.4	1,306.57	1	44.5	100
4,734.72	233,808	66	295	5.98	2.0	4,974.52	4	268.1	431
891.94	40,189	29	115	2.56	2.2	295.08	2	14.2	178
1,709.21	74,400	14	443	10.17	2.3	4,157.67	4	116.1	226
252.01	8,275	3	230	7.00	3.0				84
9,781.08	701,805	125	468	6.52	1.4	7,363.38	18	471.1	682
32,129.58	1,936,103	338	477	7.92	1.7	46,159.95	46	2,251.7	7,028
8,886.98	560,855	124	377	5.97	1.6	5,551.59	15	329.9	687
2,025.48	67,030	43	130	3.93	3.0	231.50	1	5.0	164
1,763.04	70,757	44	134	3.34	2.5	677.36	2	33.6	173
1,956.31	92,879	37	209	4.41	2.1	655.01	5	32.5	358
8,373.37	450,499	143	263	4.88	1.9	7,004.92	21	295.6	694
4,229.56	183,131	77	197	4.56	2.3	3,321.78	11	144.2	332
2,025.90	92,740	53	146	3.19	2.2	2,717.32	7	128.2	249

STATEMENT

**Statistics Relating to the Supply of Electrical Energy to Consumers
For Domestic Service, for Commercial Light Service**

Group III—SMALL TOWNS (less than 2,000 population).

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			\$ c.	kw-hr.		kw-hr.	\$ c.	cents
Granton.....	S.O.	P.V.	2,098.07	102,156	85	100	2.06	2.1
Grimsby.....	S.O.	1,993	18,773.68	1,435,277	675	177	2.32	1.3
Hagersville.....	S.O.	1,588	8,259.63	516,575	424	102	1.62	1.6
Harriston.....	S.O.	1,242	8,743.58	549,770	395	116	1.84	1.6
Harrow.....	S.O.	1,122	13,101.73	978,295	360	226	3.03	1.3
Hastings.....	S.O.	698	4,724.59	200,699	249	67	1.64	2.4
Havelock.....	S.O.	876	4,769.94	236,195	300	66	1.32	2.0
Hensall.....	S.O.	601	4,789.19	243,970	213	95	1.87	2.0
Highgate.....	S.O.	301	1,946.71	84,901	108	66	1.50	2.3
Holstein.....	S.O.	P.V.	1,095.65	41,780	63	55	1.45	2.6
Iroquois.....	S.O.	925	7,270.60	479,552	318	126	1.91	1.5
Jarvis.....	S.O.	557	2,938.81	134,730	163	69	1.50	2.2
Kemptville.....	S.O.	1,158	8,704.85	510,730	391	109	1.86	1.7
Kirkfield.....	S.O.	P.V.	912.16	26,155	40	54	1.90	3.5
Lakefield.....	S.O.	1,327	7,866.62	474,291	380	104	1.72	1.7
Lambeth.....	S.O.	P.V.	3,681.65	285,061	144	165	2.13	1.3
Lanark.....	S.O.	670	3,323.73	132,346	185	60	1.50	2.5
Lancaster.....	S.O.	518	1,916.21	84,440	121	58	1.32	2.3
La Salle.....	S.O.	1,020	10,326.06	627,200	288	181	2.99	1.6
London Twp.....	S.O.	.....	17,549.00	1,462,115	502	243	2.91	1.2
Lucan.....	S.O.	583	4,811.11	341,346	194	147	2.06	1.4
Lucknow.....	S.O.	932	5,574.93	272,230	293	77	1.59	2.0
Lynden.....	S.O.	P.V.	2,914.29	185,893	101	153	2.40	1.6
Madoc.....	S.O.	1,094	5,756.93	294,610	322	76	1.48	2.0
Markdale.....	S.O.	700	3,429.42	313,289	242	108	1.18	1.1
Markham.....	S.O.	1,210	9,395.64	563,521	354	133	2.21	1.7
Marmora.....	S.O.	938	4,873.81	188,205	258	61	1.57	2.6
Martintown.....	S.O.	P.V.	972.76	43,750	59	62	1.37	2.2
Maxville.....	S.O.	801	3,158.58	153,465	181	71	1.45	2.1
Merlin.....	S.O.	P.V.	2,191.85	107,050	128	70	1.43	2.0
Mildmay.....	S.O.	725	4,340.38	265,877	194	114	1.86	1.6
Millbrook.....	S.O.	673	4,379.36	158,002	185	71	1.97	2.8
Milton.....	S.O.	1,955	14,263.35	1,045,516	559	156	2.13	1.4
Milverton.....	S.O.	970	6,057.90	532,130	271	164	1.86	1.1
Mitchell.....	S.O.	1,531	14,310.57	1,086,456	530	171	2.25	1.3
Moorefield.....	S.O.	P.V.	1,385.40	57,350	70	68	1.65	2.4
Morrisburg.....	S.O.	1,436	10,994.77	650,920	437	124	2.10	1.7
Mt. Brydges.....	S.O.	P.V.	2,654.30	141,402	170	69	1.30	1.9
Mt. Forest.....	S.O.	1,753	10,253.61	571,120	509	94	1.68	1.8
Neustadt.....	S.O.	418	2,092.68	70,053	118	49	1.48	3.0

“D”—Continued

in Ontario Municipalities Served by the Commission
and for Power Service during the year 1945

VILLAGES AND SUBURBAN AREAS

Commercial Light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average monthly horse- power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
1,071.83	47,890	26	153	3.44	2.2				111
13,121.74	713,662	126	472	8.68	1.8	13,627.03	17	527.9	818
6,986.42	405,234	120	281	4.85	1.7	17,735.29	18	1,035.9	562
5,962.22	307,583	96	267	5.18	1.9	7,249.36	14	334.0	505
6,398.53	297,625	89	279	5.99	2.1	4,585.42	8	382.1	457
2,651.68	93,419	55	142	4.02	2.8	192.09	3	15.2	307
2,133.18	82,692	52	133	3.42	2.6	2,112.00	3	81.1	355
2,368.71	81,930	54	126	3.65	2.9	2,813.30	15	159.6	282
850.87	31,600	32	82	2.22	2.7	1,270.95	5	64.2	145
369.62	15,790	12	110	2.57	2.3	484.23	2	28.0	77
3,327.42	165,938	63	219	4.40	2.0	1,834.16	5	75.1	386
1,998.27	112,009	41	228	4.06	1.8	3,870.55	2	146.0	206
6,204.29	313,711	85	308	6.08	2.0	3,289.66	6	152.2	482
1,107.92	29,478	20	123	4.62	3.8				60
5,035.85	249,638	68	306	6.17	2.0	7,755.76	10	400.3	458
939.88	48,550	28	144	2.80	1.9	704.26	4	59.7	176
1,975.37	100,234	39	214	4.22	2.0	477.09	2	12.8	226
1,079.09	43,340	30	120	3.00	2.5				151
1,833.95	84,357	15	469	10.19	2.2	428.10	3	16.3	306
2,098.70	128,331	16	668	10.93	1.6	1,763.54	5	85.7	523
2,487.53	110,868	52	178	3.99	2.2	1,273.38	6	73.7	252
3,695.38	133,556	83	134	3.71	2.8	10,434.41	9	341.1	385
772.25	33,872	15	188	4.29	2.3	767.53	2	45.2	118
4,094.63	181,225	89	170	3.83	2.3	1,846.15	6	93.0	417
3,324.83	190,448	76	209	3.65	3.6	1,995.04	8	116.1	326
3,127.77	139,994	61	191	4.27	2.2	3,461.74	9	179.6	424
2,358.04	115,540	39	247	5.04	2.0	205.82	1	19.9	298
1,239.79	41,280	24	143	4.30	3.0				83
2,429.07	92,668	46	168	4.40	2.6				227
1,943.35	88,779	55	135	2.94	2.2	1,416.09	3	60.8	186
2,832.13	112,202	59	158	4.00	2.5	1,099.20	2	32.8	255
1,981.74	44,680	60	62	2.75	4.4	1,962.19	5	101.2	250
7,959.80	445,493	111	334	5.98	1.8	28,292.33	16	1,265.9	686
4,031.73	191,480	89	179	3.78	2.1	6,243.49	10	360.5	370
7,437.71	419,549	137	255	4.52	1.8	8,038.72	25	409.0	692
1,491.15	70,284	29	202	4.28	2.1	200.08	2	6.3	101
6,339.59	301,099	111	226	4.76	2.1	4,119.78	17	219.6	565
1,012.12	70,702	40	147	2.11	1.4	852.84	5	53.8	215
8,783.39	426,058	138	257	5.30	2.1	6,909.16	17	359.4	664
1,056.38	47,917	25	160	3.52	2.2	505.89	2	15.5	145

STATEMENT

**Statistics Relating to the Supply of Electrical Energy to Consumers
For Domestic Service, for Commercial Light Service**

Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			\$ c.	kw-hr.		kw-hr.	\$ c.	cents
Newbury.....	S.O.	233	1,360.91	47,008	76	52	1.49	2.9
Newcastle.....	S.O.	690	5,232.23	301,172	233	108	1.87	1.7
New Hamburg.....	S.O.	1,454	10,026.77	771,674	386	167	2.16	1.3
Niagara-on-the-Lake.....	S.O.	1,802	19,706.63	1,901,432	641	247	2.56	1.0
Nipigon Twp.....	T.B.	.....	5,926.07	356,090	261	114	1.89	1.7
North York Twp.....	S.O.	.....	239,262.95	18,775,178	7,585	206	2.63	1.3
Norwich.....	S.O.	1,199	10,067.41	832,220	401	173	2.09	1.2
Norwood.....	S.O.	694	5,747.40	282,330	253	93	1.89	2.0
Oil Springs.....	S.O.	426	2,137.54	131,124	108	101	1.65	1.6
Omeme.....	S.O.	598	3,581.66	170,415	176	81	1.70	2.1
Orono.....	S.O.	P.V.	4,615.90	180,828	183	82	2.10	2.6
Otterville.....	S.O.	P.V.	2,938.11	219,920	146	126	1.68	1.3
Paisley.....	S.O.	577	4,193.74	143,805	209	57	1.67	2.9
Palmerston.....	S.O.	1,396	11,776.66	936,974	400	195	2.45	1.2
Parkhill.....	S.O.	801	6,251.77	363,450	315	96	1.65	1.7
Plattsville.....	S.O.	P.V.	2,627.13	118,722	124	80	1.77	2.2
Point Edward.....	S.O.	1,221	7,547.38	363,950	355	85	1.77	2.1
Port Dalhousie.....	S.O.	1,747	22,466.46	2,046,149	704	242	2.66	1.1
Port Elgin.....	S.O.	1,276	13,129.82	730,622	525	116	2.08	1.8
Port McNicoll.....	S.O.	825	4,234.82	175,020	251	58	1.41	2.4
Port Perry.....	S.O.	1,275	10,291.33	468,866	391	100	2.19	2.2
Port Rowan.....	S.O.	584	3,328.98	158,050	178	74	1.56	2.1
Port Stanley.....	S.O.	833	17,121.29	1,170,753	950	103	1.50	1.5
Priceville.....	S.O.	P.V.	638.52	18,118	36	42	1.48	3.5
Princeton.....	S.O.	P.V.	2,811.44	153,330	96	133	2.44	1.8
Queenston.....	S.O.	P.V.	3,048.06	323,941	82	329	3.10	0.9
Richmond.....	S.O.	412	2,737.68	133,890	93	120	2.45	2.0
Richmond Hill.....	S.O.	1,454	11,740.85	1,134,665	431	219	2.27	1.0
Ridgetown.....	S.O.	1,911	9,407.31	650,260	604	90	1.30	1.4
Ripley.....	S.O.	358	3,252.57	95,025	133	60	2.04	3.4
Rockwood.....	S.O.	P.V.	4,531.33	287,740	180	133	2.10	1.6
Rodney.....	S.O.	718	3,621.01	188,345	256	61	1.18	1.9
Rosseau.....	S.O.	179	1,754.06	33,100	65	42	2.25	5.3
Russell.....	S.O.	P.V.	3,604.81	145,347	124	98	2.42	2.5
St. Clair Beach.....	S.O.	230	3,115.29	174,220	108	134	2.40	1.8
St. George.....	S.O.	P.V.	3,341.55	218,236	164	111	1.70	1.5
St. Jacobs.....	S.O.	P.V.	4,215.64	354,960	139	213	2.53	1.2
Scarborough Twp.....	S.O.	.....	141,923.12	11,301,577	6,113	154	1.93	1.3
Seaforth.....	S.O.	1,724	12,493.53	855,825	525	136	1.98	1.5
Shelburne.....	S.O.	985	6,089.97	325,200	318	85	1.60	1.9
Sioux Lookout.....	N.O.P.	1,723	19,809.60	474,274	520	76	3.17	4.2
Smithville.....	S.O.	P.V.	3,704.53	187,353	190	82	1.62	2.0
Southampton.....	S.O.	1,596	11,288.94	705,265	583	101	1.61	1.6
Springfield.....	S.O.	401	2,273.20	92,824	135	57	1.40	2.4
Stamford Twp.....	S.O.	.....	75,548.73	7,817,480	2,593	251	2.43	1.0

"D"—Continued

in Ontario Municipalities Served by the Commission
and for Power Service during the year 1945

VILLAGES AND SUBURBAN AREAS

Commercial Light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horse-power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
458.72	12,043	19	97	2.01	3.8	174.17	1	11.4	96
1,661.74	85,474	35	204	3.96	1.9	3,061.93	6	116.5	274
4,911.46	246,175	106	194	3.86	2.0	8,408.22	12	406.3	504
7,166.17	491,440	102	402	5.85	1.5	6,518.76	11	315.3	754
4,672.80	286,252	54	442	7.21	1.6	769.42	4	42.8	319
34,769.28	1,766,499	372	396	7.79	2.0	171,401.69	73	6,201.8	8,030
5,044.77	225,383	89	211	4.72	2.2	2,254.65	9	154.9	499
2,992.53	96,100	61	131	4.09	3.1	1,309.39	6	66.0	320
1,444.46	69,406	36	161	3.34	2.1	5,485.75	33	169.8	177
909.77	34,045	30	95	2.53	2.7	3,477.21	6	149.0	212
1,992.73	69,775	39	149	4.26	2.9	303.68	2	11.7	224
1,965.30	98,605	48	171	3.41	2.0	547.57	5	42.6	199
2,561.44	95,915	54	148	3.95	2.7	963.59	3	36.8	266
5,191.87	278,932	95	245	4.55	1.9	8,860.86	14	556.5	509
3,643.13	157,345	85	154	3.57	2.3	2,588.78	9	117.7	409
1,797.60	92,812	23	336	6.51	1.9	2,040.95	2	77.9	149
3,147.65	128,944	45	239	5.83	2.4	43,965.96	11	1,737.0	411
5,109.10	358,495	72	415	5.91	1.4	7,215.71	12	434.0	788
7,280.72	305,206	129	197	4.70	2.4	4,393.33	7	235.4	661
823.10	32,000	18	148	3.81	2.6				269
3,925.30	158,948	79	168	4.14	2.5	3,275.83	10	141.8	480
2,457.15	138,900	41	282	4.99	1.8	105.43	2	2.8	221
4,877.86	228,549	85	224	4.78	2.1	4,814.79	11	193.6	1,146
162.92	4,973	9	46	1.51	3.3	303.91	3	12.0	48
938.48	42,241	22	160	3.55	2.2	2,674.67	3	97.4	121
1,482.35	93,503	17	458	7.27	1.6				99
1,142.34	41,066	22	155	4.33	2.8				115
4,494.96	289,027	75	321	4.99	1.6	2,444.34	15	169.1	521
8,295.60	458,379	138	277	5.01	1.8	7,257.82	20	443.2	762
1,985.62	48,141	51	79	3.24	4.1	2,286.79	2	90.9	186
1,195.44	50,530	30	140	3.32	2.4	65.54	2	4.0	212
2,333.60	94,340	67	117	2.90	2.5	1,981.58	6	104.1	329
805.24	19,302	12	134	5.59	4.2	279.99	1	15.2	78
1,663.23	57,366	31	154	4.47	2.9				155
1,849.81	88,025	6	1,223	25.69	2.1	200.90	1	10.0	115
1,459.17	87,225	28	260	4.34	1.7	4,279.82	3	170.7	195
2,066.15	102,140	33	258	5.22	2.0	5,223.62	9	265.9	181
27,123.09	1,836,375	406	377	5.57	1.5	39,695.14	46	1,775.0	6,565
9,667.14	447,404	119	313	6.77	2.2	17,964.44	22	826.2	666
4,047.55	189,900	75	211	4.50	2.1	3,327.46	14	198.6	407
13,220.79	246,678	88	234	12.52	5.4	1,423.32	2	32.5	610
2,673.44	108,849	54	168	4.13	2.5	2,754.62	5	159.4	249
6,223.94	285,890	91	262	5.70	2.2	8,854.57	12	347.6	686
801.75	22,528	22	85	3.04	3.6	1,253.15	4	50.5	161
14,812.65	954,198	162	491	7.62	1.6	18,965.20	20	1,227.9	2,775

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers
For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			\$ c.	kw-hr.		kw-hr.	\$ c.	cents
Stayner.....	S.O.	1,162	6,456.78	361,870	335	90	1.61	1.8
Stirling.....	S.O.	984	6,942.69	566,800	294	161	1.97	1.2
Stouffville.....	S.O.	1,295	7,638.96	569,550	420	113	1.52	1.3
Streetsville.....	S.O.	707	6,007.66	435,150	205	177	2.44	1.4
Sunderland.....	S.O.	P.V.	3,088.90	132,728	149	74	1.73	2.3
Sutton.....	S.O.	894	9,067.12	462,250	478	81	1.58	1.6
Tara.....	S.O.	482	2,979.97	113,882	157	60	1.58	2.6
Tavistock.....	S.O.	1,037	8,612.44	703,828	300	196	2.39	1.2
Teeswater.....	S.O.	846	4,512.13	203,181	236	72	1.59	2.2
Thamesford.....	S.O.	P.V.	4,459.87	362,440	151	200	2.46	1.2
Thamesville.....	S.O.	777	3,807.74	245,008	243	84	1.31	1.6
Theford.....	S.O.	573	3,351.08	137,520	189	61	1.48	2.4
Thornbury.....	S.O.	803	5,162.99	250,720	261	80	1.65	2.1
Thorndale.....	S.O.	P.V.	1,951.98	89,357	86	87	1.89	2.2
Thornton.....	S.O.	P.V.	1,231.07	38,480	68	47	1.51	3.2
Tilbury.....	S.O.	1,995	7,867.50	531,924	521	85	1.26	1.5
Toronto Twp.....	S.O.	.....	101,064.03	7,863,238	3,305	198	2.55	1.3
Tottenham.....	S.O.	454	3,534.44	157,080	176	74	1.67	2.3
Trafalgar Twp. No. 1.....	S.O.	.....	19,572.00	934,000	415	188	3.93	2.1
Trafalgar Twp. No. 2.....	S.O.	.....	6,774.09	390,406	170	191	3.32	1.7
Tweed.....	S.O.	1,250	7,553.87	383,133	334	96	1.88	2.0
Uxbridge.....	S.O.	1,439	10,337.74	576,380	447	107	1.93	1.8
Victoria Harbour.....	S.O.	894	3,900.49	190,410	281	56	1.16	2.0
Wardsville.....	S.O.	226	1,458.23	65,767	68	81	1.79	2.2
Warkworth.....	S.O.	P.V.	2,592.65	92,200	137	56	1.58	2.8
Waterdown.....	S.O.	916	6,181.10	505,640	280	150	1.84	1.2
Waterford.....	S.O.	1,352	7,531.25	541,039	414	109	1.52	1.4
Watford.....	S.O.	972	8,464.89	542,620	307	147	2.30	1.6
Waubashene.....	S.O.	P.V.	3,621.69	165,706	239	69	1.26	2.2
Wellesley.....	S.O.	P.V.	2,594.73	138,380	138	84	1.57	1.9
Wellington.....	S.O.	909	6,798.54	396,440	341	97	1.66	1.7
West Lorne.....	S.O.	791	3,990.03	248,391	236	88	1.41	1.6
Westport.....	S.O.	663	4,151.71	155,390	158	82	2.19	2.7
Wheatley.....	S.O.	716	3,698.19	216,700	246	73	1.25	1.7
Wiarton.....	S.O.	1,709	7,888.01	386,381	461	70	1.43	2.0
Williamsburg.....	S.O.	P.V.	1,788.81	163,320	92	148	1.62	1.1
Winchester.....	S.O.	959	7,247.66	551,314	312	147	1.94	1.3
Windermere.....	S.O.	100	2,567.00	64,280	70	77	3.05	4.0
Woodbridge.....	S.O.	1,089	8,229.90	693,414	323	179	2.12	1.2
Woodville.....	S.O.	381	2,417.16	105,100	122	72	1.65	2.2
Wyoming.....	S.O.	480	2,728.14	125,630	172	61	1.32	2.2
York Twp.....	S.O.	.....	498,427.95	40,822,256	22,430	152	1.85	1.2
Zurich.....	S.O.	P.V.	3,907.94	185,277	148	104	2.20	2.1

“D”—Concluded

in Ontario Municipalities Served by the Commission
and for Power Service during the year 1945

VILLAGES AND SUBURBAN AREAS

Commercial Light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average monthly horse- power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
4,094.65	194,738	85	191	4.01	2.1	2,877.95	17	209.7	437
3,620.59	172,839	70	206	4.31	2.1	1,443.86	10	87.3	374
4,162.82	239,720	89	224	3.90	1.7	1,225.16	6	75.6	515
2,244.77	98,910	48	172	3.90	2.3	3,393.99	6	166.8	259
1,360.95	48,825	39	104	2.91	2.8	377.59	2	13.0	190
3,557.22	201,850	77	218	3.85	1.8	1,773.69	5	62.7	560
1,552.97	79,857	35	190	3.70	1.9	1,674.21	6	62.1	198
4,496.97	203,292	96	176	3.90	2.2	9,472.98	9	416.4	405
2,745.63	121,562	62	163	3.69	2.3	2,388.89	5	62.0	303
1,394.58	85,654	36	198	3.23	1.6	2,089.05	6	102.4	193
3,007.89	175,301	69	212	3.63	1.7	2,036.13	6	99.9	318
2,465.15	85,353	49	145	4.19	2.9	1,683.20	2	52.0	240
3,023.22	79,355	65	102	3.88	3.8	2,409.77	11	124.1	337
715.55	23,081	21	92	2.84	3.1	1,181.55	2	45.6	109
453.27	16,544	13	106	2.91	2.7	280.31	2	5.8	83
7,408.14	428,144	129	277	4.79	1.7	32,530.79	16	1,546.2	666
25,051.51	1,787,687	220	677	9.49	1.4	10,275.98	34	531.0	3,559
1,082.39	36,170	38	79	2.37	3.0	1,773.67	8	64.7	222
1,017.71	52,920	6	735	14.14	1.9	2,706.78	8	109.4	429
915.45	43,215	20	180	3.81	2.1	174.07	2	11.0	192
5,142.10	176,742	80	184	5.36	2.9	4,786.91	15	195.9	429
4,561.41	160,625	92	145	4.13	2.8	3,185.21	12	174.0	551
946.72	45,738	29	131	2.72	2.1	106.66	1	3.0	311
947.79	39,244	18	182	4.39	2.4	37.67	1	3.0	87
1,516.11	63,870	36	148	3.51	2.4	122.24	1	5.1	174
1,646.71	125,370	36	290	3.81	1.3	1,511.30	10	68.4	326
3,926.37	297,615	78	318	4.19	1.3	4,874.49	15	321.8	507
4,144.75	191,200	83	192	4.16	2.2	4,840.62	8	196.2	398
876.13	45,920	22	174	3.32	1.9	192.90	3	8.0	263
1,464.29	65,146	44	123	2.77	2.3	1,238.31	6	60.8	188
3,015.55	127,376	68	156	3.70	2.4	2,887.40	10	156.1	419
3,391.05	203,139	55	308	5.14	1.7	5,040.70	8	247.2	299
2,911.88	109,195	51	178	4.76	2.7	.....	.....	.....	209
3,833.96	180,949	76	198	4.20	2.1	3,170.03	7	152.1	329
7,367.19	369,678	107	288	5.74	2.0	7,606.63	19	238.7	587
1,994.26	121,180	35	289	4.75	1.6	296.12	1	23.5	128
4,748.49	261,377	85	256	4.66	1.8	2,018.69	3	103.0	400
561.42	13,718	11	104	4.25	4.1	709.04	2	38.5	83
2,126.50	109,670	47	194	3.77	1.9	10,085.23	9	545.2	379
944.90	31,405	23	114	3.42	3.0	685.16	2	42.8	147
1,575.01	62,690	44	119	2.98	2.5	933.29	4	44.2	220
78,586.61	5,268,814	1,015	433	6.45	1.5	171,251.06	198	9,117.8	23,643
3,333.56	127,883	45	237	6.17	2.6	.....	.....	.....	193

STATEMENT "E"

Cost of Power to Municipalities and Rates to Consumers for
Domestic Service—Commercial Light Service—Power Service
in Ontario Urban Municipalities Served by
The Hydro-Electric Power Commission
for the year 1945

In Statement "E" are presented the rate schedules applicable to consumers for domestic service, for commercial light service and for power service in each of the co-operating municipalities receiving service at cost through The Hydro-Electric Power Commission.* The cost per horsepower of the power supplied at wholesale by the Commission to the municipality, an important factor in determining rates to consumers, is also stated.

Cost of Power to Municipalities

The figures in the first column represent the total cost for the year of the power supplied by the Commission to the municipality, divided by the number of horsepower supplied. Details respecting these costs are given in the "Cost of Power" tables relating to the systems, as presented in Section IX, and an explanation of the items making up the cost of power is given in the introduction to that Section.

Rates to Consumers

The Power Commission Act stipulates that "The rates chargeable by any municipal corporation generating or receiving and distributing electrical power or energy shall at all times be subject to the approval and control of the Commission"†. In accordance with the Act and in pursuance of its fundamental principle of providing service at cost, the Commission requires that accurate cost records be kept in each municipality, and exercises a continuous supervision over the rates charged to consumers.

At the commencement of its operations, the Commission introduced scientifically-designed rate schedules for each of the three main classes into which electrical service is usually divided, namely: residential or domestic service, commercial light service, and power service, and the schedules in use during the past year are presented in the tables of this statement.

*Except townships served as parts of rural power districts, for which consult Section IV.

†R.S.O. 1937, Ch. 62, Sec. 89.

Domestic Service: Domestic rates apply to electrical service in residences, for all household purposes, including lighting, cooking and the operation of all domestic appliances.

During the past few years most of the urban municipal utilities have further simplified the domestic rate structure by abolishing the service charge, and making a suitable adjustment in the first consumption rate. Where the service charge is retained at 33 and 66 cents gross per month the charge of 33 cents per month per service is made when the permanently installed appliance load is under 2,000 watts, and the charge of 66 cents per month when 2,000 watts or more.

Commercial Light Service: Electrical energy used in stores, offices, churches, schools, public halls and institutions, hotels, public boarding-houses, and in all other premises for commercial purposes, including sign and display lighting, is billed at commercial lighting rates.

Water-Heater Service: For all consumers using continuous electric water heaters, low flat rates are available consisting of a fixed charge per month dependent on the capacity of the heating element and the cost of power to the municipal utility. Such heaters are so connected that the electrical energy they consume is not metered. For new installations the necessary equipment, including heater, thermostat, efficient insulation for water-storage tank, and wiring, is installed by a large number of municipal Hydro utilities, without capital cost to the consumer.† The installation of new water-heating services was suspended during the war.

Power Service: The rate schedules given for power service in Statement "E" are those governing the supply of power at retail by each of the local municipal utilities. The Commission serves direct, certain large power consumers under special contracts, on behalf of the systems of municipalities.

The rates for power service, as given in the tables, are the rates for 24-hour unrestricted power at secondary distribution voltage. For service at primary distribution voltage the rates are usually five per cent lower than those stated. In municipalities where load conditions and other circumstances permit, lower rates are available for "restricted power", discounts additional to those listed in the table being applicable.

The service charge relates to the connected load or to the maximum demand, as measured by a 10-minute average peak, where a demand meter is installed. The prompt payment discount of 10 per cent on the total monthly bill is given for settlement within 10 days.

Under the tabulation of rates for power service there is a column headed "Basis of rate 130 hours' monthly use of demand." This column shows approximately the net annual amount payable for a demand of one horsepower, assuming a monthly use of 130 hours, which includes 30 hours' use each month at the third energy rate. Broadly, the figures in this column serve to indicate approximately the relative cost of power service in the different municipalities listed.

†In addition, the municipal Hydro utilities supply booster water-heating equipment to furnish extra requirements beyond the capacity of the continuous heater; current for the booster heater is measured and charged for at the regular rates.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1945, in Urban Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month*	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
c—City T—Town (pop. 2,000 or more)							
Acton.....	\$ c. 24.61	cents	60	cents 2.3	cents 1.0	\$ c. 0.83	% 10
Agincourt.....	24.69	.....	60	3.0	1.0	0.83	10
Ailsa Craig.....	30.92	.....	60	2.5	0.9	0.83	10
Alexandria..... T	37.85	.....	60	3.0	1.0	1.11	10
Alliston..... T	31.09	.....	55	3.5	1.0	1.11	10
Almonte.....	29.68	a 2	.....	b 1.5	1.0	.....	10
Alvinston.....	39.00	.....	60	3.5	1.0	0.83	10
Amherstburg..... T	26.60	.....	60	2.5	0.9	0.83	10
Ancaster Twp.....	23.19	.....	60	3.4	1.0	0.83	10
Apple Hill.....	35.92	.....	60	4.0	1.0	1.39	10
Arkona.....	39.00	.....	60	4.0	1.0	1.11	10
Arnprior..... T	22.33	.....	60	2.8	0.8	0.83	10
Arthur.....	39.00	.....	45	4.5	1.2	1.11	10
Athens.....	35.90	33-66	50	4.5	1.5	1.11	10
Atikokan.....	.....	56	40	3.5	x1.6 0.75	†1.67 ‡2.25	10
Aurora..... T	23.56	.....	60	2.6	1.0	0.83	10
Aylmer..... T	25.92	.....	60	2.2	0.8	0.83	10
Ayr.....	27.99	.....	60	2.7	1.0	1.11	10
Baden.....	23.95	.....	60	2.4	0.9	0.83	10
Bala..... T	.....	33-66	50	3.7	1.2	1.66	10
Barrie..... T	22.05	.....	60	2.4	0.8	0.83	10
Bath.....	39.00	.....	60	4.8	1.5	2.22	10
Beachville.....	24.65	.....	60	2.8	0.9	0.83	10
Beamsville.....	22.07	.....	60	2.2	0.8	0.83	10
Beardmore Townsite..	.....	56	40	3.5	x1.6 0.75	†1.67 ‡2.25	10
Beaverton.....	28.46	.....	60	2.8	1.0	1.11	10
Beeton.....	39.00	.....	45	4.0	1.2	1.39	10
Belle River.....	29.89	.....	60	3.0	0.9	1.11	10
Belleville..... C	19.73	.....	55	1.8	0.6	0.83	10
Blenheim..... T	26.71	.....	60	2.3	0.8	0.83	10
Bloomfield.....	33.64	.....	60	2.5	0.9	0.83	10
Blyth.....	34.63	.....	60	2.9	1.0	1.11	10
Bolton.....	28.46	.....	60	2.9	1.0	0.83	10
Bothwell..... T	34.13	.....	60	2.2	0.75	0.83	10
Bowmanville..... T	24.92	.....	60	2.8	0.9	0.83	10
Bradford.....	32.62	.....	45	4.2	1.0	1.39	10
Braeside.....	24.07	.....	50	4.0	1.3	0.83	10
Brampton..... T	23.06	.....	60	2.1	0.9	0.83	10
Brantford..... C	21.76	.....	60	1.8	0.8	0.83	10
Brantford Twp.....	25.11	.....	60	2.6	0.9	1.11	10

*Where domestic service charge has not been abolished the charge is 33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when 2,000 watts or more.

†2 wire service.

‡3 wire service.

a. Service Charge per 100 square feet floor area.

“E”

Domestic Service—Commercial Light Service—Power Service Served by The Hydro-Electric Power Commission

Commercial Light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5.0	1.8	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	2.6	0.6	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.0	0.6	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	2.6	0.8	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5.0	3.2	0.9	1.11	10	27.00	1.00	2.3	1.5	0.33	.....	.....	10
.....	c3.0. d2.0.	1.0	.....	10	.....	1.00	1.0	0.5	0.10	.....	.....	10
5.0	3.0	0.9	0.83	10	38.00	1.00	4.0	2.6	0.33	.....	.....	10
5.0	2.0	0.5	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.9	0.7	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	3.5	1.0	1.39	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	3.5	0.8	1.11	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5.0	2.5	0.6	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	4.0	1.0	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5.0	4.5	1.0	1.11	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5.0	3.5	1.0	1.67. 2.25.	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	1.6	0.4	1.11	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	1.8	0.4	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	2.2	0.7	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5.0	2.0	0.6	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	3.7	0.8	1.66	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.0	0.6	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	5.0	1.0	2.22	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5.0	2.4	0.5	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	1.8	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	3.5	1.0	1.67. 2.25.	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	2.0	0.8	1.11	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	3.5	1.0	1.39	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	2.5	0.5	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
4.5	1.5	0.3	0.83	10	14.00	1.00	1.1	0.7	0.33	.....	25	10
5.0	1.8	0.5	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	2.3	0.7	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	2.4	0.8	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	2.5	0.8	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	1.7	0.3	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	2.3	0.6	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	3.7	1.0	1.39	10	25.00	1.00	2.0	1.3	0.33	.....	.....	10
5.0	4.0	1.0	0.83	10	25.00	1.00	2.0	1.3	0.33	.....	.....	10
5.0	1.7	0.5	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10
z5.0	1.5	0.35	0.83	10	15.00	1.00	1.3	0.8	0.33	.....	25	10
5.0	2.2	0.5	1.11	10	18.00	1.00	1.9	1.2	0.33	.....	25	10

b. Per kw-hr for first 2 kw-hrs per 100 square feet.

c. First 30 hours use—3 cents per kw-hr.

d. Next 70 hours use—2 cents per kw-hr.

x2 wire service next 80 kw-hrs. 3 wire service next 180 kw-hrs.

z Minimum 500 watts.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1945, in Urban Municipalities**

Municipality c—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to munici- pality on a horse- power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cents	\$ c.	%
Brechin.....	32.68	.....	45	5.5	1.2	1.67	10
Bridgeport.....	26.61	.....	60	3.0	0.9	0.83	10
Brigden.....	36.63	.....	60	3.0	0.9	1.11	10
Brighton.....	24.21	.....	60	3.5	0.9	0.83	10
Brockville..... T	22.19	.....	60	1.8	0.7	0.83	10
Brussels.....	34.79	.....	60	3.2	1.0	1.11	10
Burford.....	24.81	.....	60	2.3	0.8	0.83	10
Burgessville.....	38.07	.....	60	4.0	1.0	1.11	10
Burlington..... T	23.13	.....			Special		
Burlington Beach or Hamilton Beach.....		.....	60	3.5	1.1	0.83	10
Caledonia.....	24.73	.....	60	2.0	0.8	0.83	10
Callander.....		56	40	3.5	*1.6	†1.67	
Campbellville.....	39.00	.....	60	2.8	0.75	‡2.25	10
Cannington.....	28.75	.....	60	3.2	1.0	1.11	10
Capreol..... T		.....	50	3.6	1.0	1.39	10
Cardinal.....	23.15	.....	55	2.5	1.0	1.11	10
Carleton Place..... T	21.87	.....	55	2.5	0.9	0.83	10
Cayuga.....	35.22	.....	60	3.5	1.0	1.39	10
Chatham..... C	23.12	.....	60	2.8	0.8	0.83	10
Chatsworth.....	30.63	.....	50	3.0	1.0	1.39	10
Chesley..... T	25.60	.....	55	2.5	0.8	1.11	10
Chesterville.....	27.41	.....	55	2.3	0.9	0.83	10
Chippawa.....	18.83	.....	60	2.0	0.8	0.83	10
Clifford.....	39.00	.....	55	3.3	1.1	1.11	10
Clinton..... T	27.35	.....	60	2.2	0.7	0.83	10
Cobden.....	32.75	.....	40	2.8	1.0	1.11	10
Cobourg..... T	23.94	.....	60	2.9	1.0	0.83	10
Colborne.....	26.61	.....	60	3.8	1.0	0.83	10
Coldwater.....	26.37	33-66	55	2.5	1.0	1.11	10
Collingwood..... T	22.93	.....	55	2.3	0.9	0.83	10
Comber.....	32.33	.....	60	2.9	0.8	0.83	10
Cookstown.....	29.43	.....	45	4.3	1.0	1.39	10
Cottage Cove Townsite.....		56	40	3.5	*1.6	†1.67	
Cottam.....	31.90	.....	60	3.0	0.75	‡2.25	10
Courtright.....	39.00	.....	60	3.0	1.0	0.83	10
		.....	60	3.0	1.1	1.11	10
Creemore.....	30.48	.....	50	3.1	1.0	1.39	10
Dashwood.....	30.38	.....	60	3.5	1.0	0.83	10
Delaware.....	25.86	.....	60	3.4	1.0	0.83	10
Delhi.....	26.97	.....	60	3.2	1.0	0.83	10
Deseronto..... T	29.42	.....	60	3.9	1.0	0.83	10

* 2-wire service next 80 kw-hrs-3-wire service next 180 kw-hrs.

† 2-wire service.

‡ 3-wire service.

“E”—Continued

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5.0	4.8	0.8	1.67	10	34.00	1.00	3.4	2.2	0.33			10
5.0	2.7	0.6	0.83	10	20.00	1.00	1.6	1.0	0.33		10	10
5.0	2.5	0.7	1.11	10	34.00	1.00	3.4	2.2	0.33			10
5.0	3.0	0.7	0.83	10	21.00	1.00	1.8	1.1	0.33		10	10
4.5	1.6	0.3	0.83	10	15.00	1.00	1.3	0.8	0.33		25	10
5.0	2.7	0.8	1.11	10	30.00	1.00	2.8	1.8	0.33			10
5.0	1.8	0.6	0.83	10	18.00	1.00	1.9	1.2	0.33		25	10
5.0	3.5	0.8	1.11	10	31.00	1.00	2.9	1.9	0.33			10
			Special							Special		
5.0	3.2	0.7	0.83	10	27.00	1.00	2.3	1.5	0.33			10
5.0	1.6	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33		25	10
			†1.67									
5.0	3.5	1.0	‡2.25	10	30.00	1.00	2.8	1.8	0.33			10
5.0	2.5	0.8	1.11	10	35.00	1.00	3.5	2.3	0.33			10
5.0	2.8	0.9	1.11	10	26.00	1.00	2.2	1.4	0.33			10
5.0	3.2	0.8	1.39	10	31.00	1.00	2.9	1.9	0.33			10
5.0	2.0	0.8	1.11	10	25.00	1.00	2.0	1.3	0.33			10
5.0	2.0	0.7	0.83	10	18.00	1.00	1.9	1.2	0.33		25	10
5.0	3.0	0.8	1.39	10	30.00	1.00	2.8	1.8	0.33			10
5.0	2.2	0.6	0.83	10	18.00	1.00	1.9	1.2	0.33		25	10
5.0	2.5	0.9	1.39	10	30.00	1.00	2.8	1.8	0.33			10
5.0	2.0	0.7	1.11	10	20.00	1.00	1.6	1.0	0.33		10	10
5.0	2.0	0.9	0.83	10	22.00	1.00	1.9	1.3	0.33		10	10
5.0	1.6	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33		25	10
5.0	3.5	1.0	1.11	10	32.00	1.00	3.1	2.0	0.33			10
5.0	1.9	0.6	0.83	10	22.00	1.00	1.9	1.3	0.33		10	10
5.0	2.5	1.0	1.11	10	35.00	1.00	3.5	2.3	0.33			10
5.0	2.4	0.8	0.83	10	20.00	1.00	1.6	1.0	0.33		10	10
5.0	3.0	1.0	0.83	10	30.00	1.00	2.8	1.8	0.33			10
5.0	2.5	1.0	1.11	10	28.00	1.00	2.5	1.6	0.33			10
5.0	1.8	0.8	0.83	10	18.00	1.00	1.9	1.2	0.33		25	10
5.0	2.5	0.6	0.83	10	26.00	1.00	2.2	1.4	0.33			10
5.0	3.8	1.0	1.39	10	25.00	1.00	2.0	1.3	0.33			10
			†1.67									
5.0	3.5	1.0	‡2.25	10	30.00	1.00	2.8	1.8	0.33			10
5.0	2.6	0.8	0.83	10	27.00	1.00	2.3	1.5	0.33			10
5.0	3.2	1.0	1.11	10	40.00	1.00	4.3	2.8	0.33			10
5.0	2.6	0.9	1.39	10	21.00	1.00	1.8	1.1	0.33		10	10
5.0	3.0	0.8	0.83	10	30.00	1.00	2.8	1.8	0.33			10
5.0	3.0	0.8	0.83	10	30.00	1.00	2.8	1.8	0.33			10
5.0	2.6	0.8	0.83	10	25.00	1.00	2.0	1.3	0.33			10
5.0	3.5	0.9	0.83	10	28.00	1.00	2.5	1.6	0.33			10

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1945, in Urban Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
c—City T—Town (pop. 2,000 or more)							
	\$ c.	cents		cents	cents	\$ c.	%
Dorchester.....	27.07	.....	60	2.6	1.0	0.83	10
Drayton.....	39.00	.....	55	4.0	1.3	1.11	10
Dresden.....T	28.11	.....	60	2.5	0.8	0.83	10
Drumbo.....	28.91	.....	60	3.5	1.0	1.11	10
Dublin.....	34.45	.....	60	3.5	1.1	1.11	10
Dundalk.....	26.51	.....	60	2.7	1.0	1.11	10
Dundas.....T	20.86	.....	60	2.2	0.8	0.83	10
Dunnville.....T	23.31	.....	60	1.8	0.7	0.83	10
Durham.....T	27.31	.....	55	2.5	1.0	0.83	10
Dutton.....	27.61	.....	60	2.0	0.8	0.83	10
East York Twp.....	21.29	.....	60	2.3	1.0	0.83	10
Elmira.....T	24.02	.....	60	2.6	0.8	0.83	10
Elmvale.....	28.55	.....	60	2.6	1.0	0.83	10
Elmwood.....	38.05	.....	50	3.5	0.9	1.11	10
Elora.....	26.81	.....	60	2.8	1.0	1.11	10
Embro.....	28.79	.....	60	3.3	1.1	0.83	10
Erieau.....	33.97	.....	60	3.7	1.0	1.11	10
Erie Beach.....	39.00	.....	60	4.5	1.2	1.39	10
Erin.....	.....	.....	40	5.0	1.5	1.39	10
Essex.....T	26.34	.....	60	2.3	0.8	0.83	10
Etobicoke Twp.....	22.23	.....	60	2.5	1.0	0.83	10
Exeter.....	27.26	.....	60	2.6	0.9	0.83	10
Fergus.....	25.73	.....	60	2.6	0.9	1.11	10
Finch.....	32.39	.....	45	3.0	1.2	1.39	10
Flesherton.....	31.40	.....	60	2.8	1.0	1.11	10
Fonthill.....	23.85	.....	60	2.8	1.0	0.33	10
Forest.....T	29.59	.....	60	3.0	0.9	0.83	10
Forst Hill.....	20.84	.....	60	2.5	1.1	0.83	10
Fort William.....C	18.70	.....	60	1.8	0.7	0.83	10
Frankford.....	.....	.....	60	4.5	1.2	0.83	10
Galt.....C	22.15	.....	60	2.5	0.7	0.83	10
Gamebridge.....	.....	.....	45	5.5	1.2	1.67	10
Georgetown.....T	25.81	.....	60	2.5	0.9	0.83	10
Geraldton Townsite..	.....	.....	60	3.7	1.2	1.11	10
Glencoe.....	38.05	.....	60	3.0	0.9	1.11	10
Glen Williams.....	.....	.....	60	2.9	1.0	0.83	10
Goderich.....T	29.26	.....	60	2.7	0.9	0.83	10
Grand Valley.....	34.69	.....	60	2.8	1.0	1.11	10
Granton.....	32.72	.....	60	3.3	1.0	0.83	10
Gravenhurst.....T	21.94	.....	60	1.8	0.7	0.83	10

"E"—Continued

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 51 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5.0	2.1	0.8	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	3.4	0.7	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	2.0	0.5	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	3.0	0.8	1.11	10	25.00	1.00	2.0	1.3	0.33	.....	.....	10
5.0	3.0	0.8	1.11	10	34.00	1.00	3.4	2.2	0.33	.....	.....	10
5.0	2.3	0.8	1.11	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	1.8	0.5	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10
5.0	1.5	0.4	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10
5.0	2.1	0.8	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	1.7	0.3	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	1.8	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	2.3	0.5	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.2	0.8	0.83	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5.0	3.0	0.8	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	2.4	0.6	1.11	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.7	0.7	0.83	10	32.00	1.00	3.1	2.0	0.33	.....	.....	10
5.0	3.5	0.9	1.11	10	38.00	1.00	4.0	2.6	0.33	2.22	.....	10
5.0	4.0	1.0	1.39	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5.0	4.0	1.0	1.39	10	36.00	1.00	3.7	2.4	0.33	.....	.....	10
5.0	1.8	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	1.9	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	2.1	0.4	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	2.2	0.4	1.11	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	2.8	1.0	1.39	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5.0	2.3	0.8	1.11	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5.0	2.3	0.6	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	2.5	0.6	0.83	10	29.00	1.00	2.6	1.7	0.33	.....	.....	10
5.0	2.0	0.6	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	1.6	0.3	0.83	10	15.00	1.00	1.3	0.8	0.33	.....	25	10
5.0	3.5	1.0	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.1	0.4	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10
5.0	4.8	0.8	1.67	10	34.00	1.00	3.4	2.2	0.33	.....	.....	10
5.0	2.0	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	3.5	1.0	†1.67	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	2.6	0.8	†2.25	10	31.00	1.00	2.9	1.9	0.33	.....	.....	10
5.0	2.3	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	2.3	0.5	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	2.4	0.8	1.11	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	2.6	1.0	0.83	10	27.00	1.00	2.3	1.5	0.33	.....	.....	10
5.0	1.5	0.4	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10

† 2-wire service.

‡ 3-wire service.

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for
for the Year 1945, in Urban Municipalities

Municipality C—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to munici- pality on a horse- power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cents	\$ c.	%
Grimsby.....T	23.98	.....	60	2.8	1.0	0.83	10
Guelph.....C	21.98	.....	60	1.8	0.8	0.83	10
Hagersville.....	26.07	.....	60	2.3	0.9	0.83	10
Hamilton.....C	20.42	.....	60	2.0	0.7	0.83	10
Hanover.....T	22.24	.....	60	2.4	1.0	0.83	10
Harriston.....T	32.15	.....	55	3.0	1.0	0.83	10
Harrow.....T	28.36	.....	60	3.2	1.0	0.83	10
Hastings.....	33.35	.....	45	4.2	1.0	1.11	10
Havelock.....	37.75	.....	60	2.8	1.0	0.83	10
Hensall.....	35.10	.....	60	3.2	1.0	0.83	10
Hepworth.....	.....	.....	60	4.0	1.2	1.67	10
Hespeler.....T	22.14	.....	60	2.7	0.8	0.83	10
Highgate.....	31.99	.....	60	3.2	0.9	0.83	10
Hislop Townsite.....	.....	56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Holstein.....	39.00	.....	60	3.0	1.0	1.11	10
Hudson Townsite.....	.....	56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Humberstone.....	22.74	.....	60	2.2	0.8	0.83	10
Huntsville.....T	25.45	.....	60	2.0	0.9	0.83	10
Ingersoll.....T	23.11	.....	60	2.3	0.8	0.83	10
Iroquois.....	21.90	.....	60	2.5	1.0	0.83	10
Jarvis.....	34.12	.....	60	2.8	0.9	0.83	10
Kearns Townsite.....	.....	56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Kemptville.....	32.16	.....	55	3.2	1.0	0.83	10
Kincardine.....T	29.50	.....	50	3.1	1.0	1.11	10
King Kirkland Townsite.....	.....	56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Kingston.....C	20.40	.....	50	1.8	0.6	0.83	10
Kingsville.....T	27.45	.....	60	2.6	0.9	0.83	10
Kirkfield.....	39.00	.....	50	5.0	1.2	1.66	10
Kitchener.....C	21.53	.....	60	2.0	0.9	0.83	10
Lakefield.....	24.25	.....	55	2.8	1.0	0.83	10
Lambeth.....	29.14	.....	60	2.6	0.8	0.83	10
Lanark.....	38.95	.....	50	3.8	1.2	0.83	10
Lancaster.....	39.00	.....	60	3.0	1.0	0.83	10
La Salle.....T	26.48	.....	60	3.6	1.1	1.11	10
Leamington.....T	27.79	.....	60	2.0	0.8	0.83	10
Leaside.....T	.....	.....	50	1.8	1.0	0.83	10
Lindsay.....T	24.79	.....	60	2.3	0.8	0.83	10
Listowel.....T	27.19	.....	60	2.3	0.9	0.83	10
London.....C	21.68	.....	60	2.2	0.75	0.83	10
London Twp.....	24.70	.....	60	2.9	1.0	1.11	10
Long Branch.....	22.35	.....	60	2.2	0.8	0.83	10
Lucan.....	26.71	.....	60	2.9	0.9	0.83	10
Lucknow.....	33.39	.....	55	2.7	1.0	1.39	10
Lynden.....	26.11	.....	60	3.0	1.0	0.83	10
MacTier.....	.....	.....	50	4.7	1.6	1.66	10

* 2-wire service next 80 kw-hrs, 3-wire service next 180 kw-hrs.
z per kw. † 2-wire service. ‡ 3-wire service.

“E”—Continued

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5.0	2.3	0.7	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5.0	1.6	0.3	0.83	10	14.00	1.00	1.1	0.7	0.33	.....	25	10
5.0	1.8	0.6	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
x5.0	1.5	0.35	0.83	10	14.50	1.00	0.9	0.56	0.25	.....	.....	10
5.0	2.0	0.7	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.6	0.7	0.83	10	25.00	1.00	2.0	1.3	0.33	.....	.....	10
5.0	2.6	0.7	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5.0	3.6	1.0	1.11	10	37.00	1.00	3.8	2.5	0.33	.....	.....	10
5.0	2.3	0.8	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	2.7	0.9	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	3.5	1.0	1.67	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5.0	2.2	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	2.8	0.7	0.83	10	29.00	1.00	2.6	1.7	0.33	.....	.....	10
5.0	3.5	1.0	+1.67.	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	2.5	0.8	+2.25.	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5.0	3.5	1.0	+1.67.	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	1.7	0.5	+2.25.	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	1.8	0.7	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	1.8	0.4	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10
5.0	2.0	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5.0	2.3	0.6	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	3.5	1.0	+1.67.	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	2.7	1.0	+2.25.	10	25.00	1.00	2.0	1.3	0.33	.....	.....	10
5.0	2.6	0.8	0.83	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5.0	3.5	1.0	+1.67.	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	1.5	0.3	+2.25.	10	15.00	1.00	1.3	0.8	0.33	.....	25	10
5.0	1.9	0.5	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	4.5	1.0	1.66	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5.0	1.8	0.6	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	2.4	0.8	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	2.1	0.5	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	3.3	1.0	0.83	10	38.00	1.00	4.0	2.6	0.33	.....	.....	10
5.0	2.5	1.0	0.83	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5.0	3.2	0.9	1.11	10	25.00	1.00	2.0	1.3	0.33	.....	.....	10
5.0	1.7	0.4	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
x5.0	1.9	0.35	0.83	10	18.50	1.00	1.5	0.9	0.25	.....	.....	10
5.0	1.9	0.6	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5.0	2.0	0.5	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	1.7	0.3	0.83	10	14.00	1.00	1.1	0.7	0.33	.....	25	10
5.0	2.5	0.6	1.11	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	1.8	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	2.4	0.5	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	2.2	0.8	1.39	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	2.5	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5.0	4.4	1.0	1.66	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10

x Minimum 500 watts.

a \$1.00 per kw.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1945, in Urban Municipalities**

Municipality c—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to munici- pality on a horse- power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-nr. per month			
	\$ c.	cents		cents	cents	\$ c.	%
Madoc.....	34.09	.....	60	2.8	1.0	0.83	10
Markdale.....	26.08	.....	60	2.0	1.0	0.83	10
Markham.....	24.94	.....	60	2.8	1.0	0.83	10
Marmora.....	29.06	.....	60	3.6	1.0	0.83	10
Martintown.....	29.06	.....	50	3.0	1.0	1.11	10
Matachewan Townsite.....			50	4.5	1.0	1.11	10
Maxville.....	37.53	.....	55	3.1	1.0	0.83	10
Meaford..... T	27.00	.....	60	2.6	1.0	0.83	10
Merlin.....	30.44	.....	60	2.8	0.9	0.83	10
Merritton..... T	19.22	.....	60	2.2	0.9	0.83	10
Midland..... T	21.62	.....	60	2.3	0.8	0.83	10
Mildmay.....	30.23	.....	50	2.8	1.0	1.39	10
Millbrook.....	29.40	.....	60	4.6	1.0	0.83	10
Milton..... T	24.23	.....	60	2.8	0.9	0.83	10
Milverton.....	28.21	.....	60	2.5	1.0	0.83	10
Mimico..... T	21.48	.....	60	2.2	0.9	0.83	10
Mitchell..... T	25.44	.....	60	2.8	1.0	0.83	10
Moorefield.....	39.00	.....	60	3.2	1.0	1.39	10
Mooretown Townsite.....		56	40	3.5	*1.6	†1.67	
Morrisburg.....	24.24	.....	60	3.0	0.75	‡2.25	10
					1.0	0.83	10
Mount Brydges.....	28.52	.....	60	2.4	0.8	0.83	10
Mount Forest..... T	31.91	.....	60	2.8	1.0	0.83	10
Napanee..... T	23.06	.....	60	2.8	0.9	0.83	10
Neustadt.....	29.93	.....	60	3.0	1.0	1.39	10
Newburg.....		.....	60	5.0	1.5	1.39	10
Newbury.....	38.88	.....	60	4.0	1.0	1.11	10
Newcastle.....	27.27	.....	60	3.0	0.9	1.11	10
New Hamburg.....	24.84	.....	60	2.7	0.9	0.83	10
			25	3			
Newmarket..... T	23.89	.....	50	1.5	0.5	0.50	10
New Toronto..... T	23.93	.....	60	2.2	0.8	0.83	10
Niagara Falls..... C	16.92	.....	60	1.7	0.6	0.83	10
Niagara-on-the-Lake T	20.15	.....	60	2.4	1.0	0.83	10
Nipigon Twp.....	22.17	.....	60	2.8	1.0	1.11	10
					*1.6	†1.67	
Nipissing.....		56	40	3.5	0.75	‡2.25	10
North Bay..... C			60	2.3	0.9	0.83	10
North York Twp.....	22.85	.....	60	2.4	0.9	0.83	10
Norwich.....	25.52	.....	60	2.5	0.8	0.83	10
Norwood.....	29.60	.....	50	3.8	1.0	1.11	10
Oil Springs.....	29.35	.....	60	2.6	0.9	1.11	10
Omamee.....	26.18	.....	60	3.3	1.0	0.83	10

* 2-wire service next 80 kw-hrs, 3-wire service next 180 kw-hrs.

† 2-wire service.

‡ 3-wire service.

"E"—Continued

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5.0	2.5	0.8	0.83	10	33.00	1.00	3.2	2.1	0.33	.....	.....	10
5.0	1.8	0.8	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	2.4	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	3.2	0.9	0.83	10	32.00	1.00	3.1	2.0	0.33	.....	.....	10
5.0	3.0	1.0	1.66	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	3.5	1.0	†1.67. ‡2.25.	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	2.8	1.0	0.83	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5.0	2.2	0.8	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	2.3	0.6	0.83	10	27.00	1.00	2.3	1.5	0.33	.....	.....	10
5.0	1.6	0.5	0.83	10	15.00	1.00	1.3	0.8	0.33	.....	25	10
5.0	1.8	0.7	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5.0	2.4	0.8	1.39	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	4.2	1.0	0.83	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5.0	2.3	0.5	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	2.2	0.7	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	1.9	0.5	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	2.3	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	2.8	0.9	1.39	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5.0	3.5	1.0	†1.67. ‡2.25.	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	2.7	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5.0	1.8	0.5	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.3	0.8	0.83	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5.0	2.4	0.7	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	2.5	0.8	1.39	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	4.5	1.5	1.39	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5.0	3.5	0.9	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5.0	2.5	0.8	1.11	10	25.00	1.00	2.0	1.3	0.33	.....	.....	10
5.0	2.2	0.6	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
..... c3.0. d1.5.	3.0	0.5	1.00	10	.....	1.00	2.5	1.5	0.25	e3.00	.....	10
5.0	1.6	0.4	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10
5.0	1.5	0.35	0.83	10	14.00	1.00	1.1	0.7	0.33	.....	25	10
5.0	2.0	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	2.4	0.8	1.11	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	3.5	1.0	†1.67. ‡2.25.	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	1.8	0.8	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	2.2	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	2.1	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	3.3	0.8	1.11	10	25.00	1.00	2.0	1.3	0.33	.....	.....	10
5.0	2.4	0.6	1.11	10	27.00	1.00	2.3	1.5	0.33	.....	.....	10
5.0	2.8	0.8	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10

c First 50 hours' use.

d Second 50 hours' use.

e Demand meter rental.

STATEMENT
Cost of Power to Municipalities and Rates to Consumers for
for the Year 1945, in Urban Municipalities

Municipality C—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cents	\$ c.	%
Orangeville.....T	29.64	.....	55	2.8	1.0	1.11	10
Orono.....T	31.45	.....	60	4.5	1.0	1.11	10
Oshawa.....C	23.75	.....	60	3.0	1.0	0.83	10
			60	2.0			
Ottawa.....C	15.24	33-66	{ 60	1.0 }	0.5	0.83	10
Otterville.....	30.48	.....	60	2.6	0.9	0.83	10
Owen Sound.....C	22.66	.....	60	2.1	0.8	0.83	10
Paisley.....	33.76	.....	50	4.0	1.0	1.39	10
Palmerston.....T	30.11	.....	60	2.6	1.0	1.11	10
Paris.....T	22.26	.....	60	2.2	0.9	0.83	10
Parkhill.....T	36.23	.....	60	3.0	1.0	0.83	10
Penetanguishene...T	23.49	.....	60	2.4	0.9	0.83	10
Perth.....T	22.70	.....	55	2.8	1.0	0.83	10
Peterborough.....C	20.29	.....	60	2.0	0.9	0.83	10
Petrolia.....T	27.66	.....	60	2.7	0.8	0.83	10
Pictou.....T	27.67	.....	60	2.0	0.8	0.83	10
Plattsville.....	32.08	.....	60	3.0	1.0	0.83	10
Point Edward.....	27.60	.....	60	3.0	1.0	0.83	10
Port Arthur.....C	18.65	.....	50	1.7	0.6	0.83	10
Port Carling.....	.....	33-66	45	4.7	1.5	1.66	10
Port Colborne.....T	22.59	.....	60	2.5	0.8	0.83	10
Port Credit.....	23.15	.....	60	2.1	0.9	0.83	10
Port Dalhousie.....	22.06	.....	60	2.4	1.0	0.83	10
Port Dover.....	28.64	.....	60	2.2	0.8	0.83	10
Port Elgin.....	28.61	33-66	40	2.5	1.2	1.11	10
Port Hope.....T	24.60	.....	60	2.2	0.9	0.83	10
Port McNicoll.....	24.26	.....	60	3.3	1.0	0.83	10
Port Perry.....	30.60	.....	50	4.0	1.2	1.11	10
Port Rowan.....	34.71	.....	60	3.0	1.0	0.83	10
Port Stanley.....	28.37	.....	60	2.6	0.9	0.83	10
Powassan.....T	.....	56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Prescott.....T	22.23	.....	60	2.5	1.1	0.83	10
Preston.....T	21.91	.....	60	2.5	0.8	0.83	10
Priceville.....	33.90	.....	60	3.5	1.0	1.39	10
Princeton.....	33.93	.....	60	3.0	1.0	1.39	10
Queenston.....	21.11	.....	60	2.3	0.9	0.83	10
Ramore-Matheson....	.....	56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Red Lake Townsite....	.....	56	40	3.5	0.75	†1.67 ‡2.25	10
Renfrew.....T	26.03	.....	45	3.5	1.0	0.33	10
Richmond.....	34.85	.....	40	4.3	1.2	1.67	10
Richmond Hill.....	23.71	.....	60	2.2	0.8	0.83	10

* 2-wire service next 80 kw-hrs, 3-wire service next 180 kw-hrs.

† 2-wire service.

‡ 3-wire service.

"E"—Continued

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5.0	2.0	0.8	1.11	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	4.0	0.8	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5.0	2.5	0.7	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
											15 &	
5.0	2.1	0.5	0.83	10	18.00	1.00	1.8	1.2	0.15	.....	10	10
5.0	2.2	0.5	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	1.8	0.7	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5.0	3.5	0.8	1.39	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5.0	2.2	0.8	1.11	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	1.7	0.4	0.83	10	15.00	1.00	1.3	0.8	0.33	.....	25	10
5.0	2.5	0.8	0.83	10	29.00	1.00	2.6	1.7	0.33	.....	.....	10
5.0	2.1	0.7	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.0	0.6	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5.0	1.8	0.7	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10
5.0	2.1	0.5	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5.0	1.7	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	2.5	0.8	0.83	10	26.00	1.00	2.2	1.4	0.33	2.00	.....	10
5.0	2.4	0.6	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
4.5	1.5	0.3	0.83	10	15.00	1.00	1.3	0.8	0.33	.....	25	10
5.0	4.5	0.8	1.66	10	32.00	1.00	3.1	2.0	0.33	.....	.....	10
5.0	2.2	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	1.8	0.5	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	1.9	0.6	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10
5.0	1.7	0.6	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	2.5	0.8	1.11	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5.0	1.9	0.6	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	2.8	0.8	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	3.2	1.0	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5.0	2.5	0.8	0.83	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5.0	2.2	0.5	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	.....	10
5.0	3.5	1.0	†1.67. ‡2.25.	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	2.2	1.0	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	2.0	0.5	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10
5.0	3.0	1.0	1.39	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	2.7	0.8	1.39	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	1.8	0.7	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	3.5	1.0	†1.67. ‡2.25.	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	3.5	1.0	†1.67. ‡2.25.	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	2.0	0.5	0.50	10	.....	1.00	2.1	1.4	0.33	.....	.....	10
5.0	4.0	1.0	1.67	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5.0	1.8	0.4	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1945, in Urban Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
c—City t—Town (pop. 2,000 or more)							
	\$ c.	cents		cents	cents	\$ c.	%
Ridgetown.....T	27.03	.....	60	2.0	0.8	0.83	10
Ripley.....	39.00	.....	55	4.8	1.0	1.67	10
Riverside.....T	25.94	.....	60	2.8	0.9	0.83	10
Rockwood.....	29.35	.....	60	2.8	1.0	0.83	10
Rodney.....	37.47	.....	60	2.4	0.8	0.83	10
Rosseau.....	39.00	.....	60	4.0	2.0	x2.22	10
Russell.....	36.07	.....	55	4.6	1.2	1.39	10
St. Catharines.....C	19.29	.....	60	1.8	0.8	0.83	10
St. Clair Beach.....	30.02	.....	60	3.5	1.0	1.11	10
St. George.....	30.03	.....	60	2.5	0.9	0.83	10
St. Jacobs.....	23.62	.....	60	2.4	0.9	0.83	10
St. Marys.....T	27.04	.....	60	3.0	1.0	0.83	10
St. Thomas.....C	22.77	.....	60	2.4	0.8	0.83	10
Sarnia.....C	25.11	.....	60	2.5	0.8	0.83	10
Scarborough Twp.....	23.04	.....	60	2.3	0.9	0.83	10
Seaforth.....T	25.87	.....	60	2.6	1.0	0.83	10
Shelburne.....	29.62	.....	60	2.7	1.0	1.11	10
Simcoe.....T	23.25	.....	60	2.0	0.7	0.83	10
Sioux Lookout.....T	.....	.....	60	6.0	2.0	2.00	10
Smiths Falls.....T	20.84	.....	60	2.5	0.8	0.83	10
Smithville.....	26.27	.....	60	3.0	0.9	0.83	10
Southampton.....T	27.40	.....	40	3.2	1.0	1.11	10
Springfield.....	35.27	.....	60	3.4	0.9	0.83	10
Stamford Twp.....	16.88	.....	60	2.3	0.8	0.83	10
Stayner.....T	26.53	.....	55	3.0	1.0	0.83	10
Stirling.....	20.46	.....	60	2.3	0.9	0.83	10
Stoney Creek.....	.....	.....	60	3.5	1.1	0.83	10
Stouffville.....	27.47	.....	60	2.1	0.8	0.83	10
Stratford.....C	23.71	.....	60	2.6	0.9	0.83	10
Strathroy.....T	24.30	.....	60	2.6	0.8	0.83	10
Streetsville.....	26.04	.....	60	2.8	1.0	0.83	10
Sudbury.....C	.....	.....	60	2.4	1.0	0.83	10
Sunderland.....	36.14	.....	60	3.5	1.0	1.11	10
Sutton.....	34.55	.....	60	2.7	1.0	1.11	10
Swansea.....	24.12	.....	60	2.1	0.9	0.83	10
Tara.....	31.12	.....	55	2.6	1.0	1.11	10
Tavistock.....	27.12	.....	60	2.5	0.9	0.83	10
Tecumseh.....T	27.79	.....	60	3.0	0.9	0.83	10
Teeswater.....	33.76	.....	60	3.0	1.0	1.11	10
Thamesford.....	28.09	.....	60	2.7	0.9	0.83	10
Thamesville.....	27.55	.....	60	2.1	0.8	0.83	10
Thedford.....	39.00	.....	60	3.6	1.0	0.83	10
Thornbury.....	38.09	.....	60	3.5	1.0	0.83	10
Thorndale.....	37.43	.....	60	3.8	1.0	0.83	10
Thornton.....	34.20	.....	60	3.8	1.0	1.39	10

x According to consumers' demand.

"E"—Continued

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5.0	1.6	0.4	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5.0	4.3	0.8	1.67	10	30.00	1.00	2.8	1.8	0.33	.....	10	10
5.0	2.3	0.5	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	2.3	0.7	0.83	10	25.00	1.00	2.0	1.3	0.33	.....	10	10
5.0	2.1	0.5	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	4.0	2.0	x2.22	10	40.00	1.00	4.3	2.8	0.33	.....	10	10
5.0	4.3	1.0	1.39	10	50.00	1.00	5.7	3.8	0.33	.....	10	10
z5.0	1.5	1/2	a0.83	10	14.00	1.00	1.1	0.7	0.33	.....	25	10
5.0	3.2	0.9	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	10	10
5.0	2.0	0.6	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	2.0	0.6	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	2.5	0.7	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	1.7	0.3	0.83	10	15.00	1.00	1.3	0.8	0.33	.....	25	10
5.0	1.9	0.4	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	1.8	0.5	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	2.1	0.7	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.3	0.9	1.11	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	1.6	0.4	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5.0	6.0	2.0	b1.00	10	40.00	1.00	4.3	2.8	0.33	.....	10	10
5.0	2.0	0.3	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5.0	2.5	0.7	0.83	10	25.00	1.00	2.0	1.3	0.33	.....	10	10
5.0	2.8	0.8	1.11	10	25.00	1.00	2.0	1.3	0.33	.....	10	10
5.0	2.9	0.8	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	10	10
5.0	2.0	0.5	0.83	10	15.00	1.00	1.3	0.8	0.33	.....	25	10
5.0	2.3	0.9	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	1.8	0.8	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5.0	3.2	0.7	0.83	10	27.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	1.8	0.5	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.0	0.4	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	2.0	0.5	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	2.3	0.5	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.4	0.8	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	3.0	0.8	1.11	10	33.00	1.00	3.2	2.1	0.33	.....	10	10
5.0	2.4	0.7	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	10	10
5.0	1.7	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	2.2	0.8	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	10	10
5.0	2.0	0.5	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.5	0.5	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5.0	2.6	0.8	1.11	10	34.00	1.00	3.4	2.2	0.33	.....	10	10
5.0	2.1	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	1.7	0.4	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	3.2	0.7	0.83	10	28.00	1.00	2.5	1.6	0.33	.....	10	10
5.0	3.0	0.8	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	3.2	0.9	0.83	10	32.00	1.00	3.1	2.0	0.33	.....	10	10
5.0	3.3	1.0	1.39	10	30.00	1.00	2.8	1.8	0.33	.....	10	10

a \$0.83 or \$0.83 per kw.

b Per 100 watts—Min. \$2.00 Max. \$5.00.

z Minimum 500 watts.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1945, in Urban Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to munici- pality on a horse- power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
c—City T—Town (pop. 2,000 or more)							
	\$ c.	cents		cents	cents	\$ c.	%
Thorold.....T	19.78	.....	60	1.8	0.7	0.83	10
Tilbury.....T	25.95	.....	60	2.0	0.75	0.83	10
Tillsonburg.....T	24.01	.....	60	2.2	0.75	0.83	10
Toronto.....C	20.73	.....	50	1.8	1.0	0.83	10
Toronto Twp.....	23.73	.....	60	2.7	1.0	1.11	10
Tottenham.....	39.00	.....	50	3.5	1.0	1.39	10
Trafalgar Twp. No. 1.	26.55	.....	60	3.1	1.7	*0.83	10
Trafalgar Twp. No. 2.	26.62	.....	60	3.6	1.2	1.11	10
Trenton.....T	19.22	.....	60	1.8	0.6	0.83	10
Tweed.....	34.08	.....	50	3.8	1.0	0.83	10
Uxbridge.....T	31.32	.....	60	3.1	1.0	1.11	10
Victoria Harbour.....	28.30	.....	60	2.4	0.9	1.11	10
Walkerton.....T	22.86	.....	50	3.2	1.1	1.11	10
Wallaceburg.....T	25.21	.....	60	2.6	0.8	0.83	10
Wardsville.....	39.00	.....	60	3.6	0.9	1.11	10
Warkworth.....	31.07	.....	50	3.5	1.2	1.11	10
Waterdown.....	23.63	.....	60	2.2	0.8	0.83	10
Waterford.....	23.94	.....	60	2.1	0.8	0.83	10
Waterloo.....T	21.71	.....	60	1.8	0.7	0.83	10
Watford.....	30.53	.....	60	3.0	1.0	0.83	10
Waubashene.....	25.39	.....	55	3.0	1.0	1.11	10
Welland.....C	19.51	.....	60	1.7	0.6	0.83	10
Wellesley.....	29.07	.....	60	2.8	1.0	0.83	10
Wellington.....	25.78	.....	60	2.7	1.0	0.83	10
West Lorne.....	30.76	.....	60	2.4	0.8	0.83	10
Weston.....T	21.12	.....	60	2.0	0.8	0.83	10
Westport.....	39.00	.....	50	4.0	1.0	1.94	10
Wheatley.....	36.93	.....	60	2.5	0.8	0.83	10
Whitby.....T	23.37	.....	60	2.5	0.9	0.83	10
Wiarton.....T	33.98	.....	50	2.8	0.9	1.11	10
Williamsburg.....	24.80	.....	60	2.0	0.8	0.83	10
Winchester.....	26.26	.....	60	2.3	1.0	0.83	10
Windermere.....	39.00	.....	60	4.0	1.5	2.22	10
Windsor.....C	23.18	.....	60	2.6	0.7	0.83	10
Wingham.....T	30.15	.....	50	3.2	1.1	1.11	10
Woodbridge.....	24.87	.....	60	2.4	0.8	0.83	10
Woodstock.....C	22.08	.....	60	2.3	0.75	0.83	10
Woodville.....	35.68	.....	50	3.8	1.0	1.11	10
Wyoming.....	32.92	.....	60	3.0	0.9	0.83	10
York Twp.....	20.70	.....	60	2.0	0.8	0.83	10
Zurich.....	35.36	.....	60	3.6	1.0	0.83	10

* Under 10 kw, 83 cents; over 10 kw \$2.22

“E”—Concluded

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5.0	1.3	0.35	0.83	10	14.00	1.00	1.1	0.7	0.33	.....	25	10
5.0	1.6	0.4	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10
5.0	1.7	0.4	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
†5.0	1.9	0.35	0.83	10	18.50	d. D.C. † 1.00	3.2	1.2	0.6	.....	.....	.....
5.0	2.2	0.6	1.11	10	20.00	1.00	1.5	0.9	0.25	.....	.....	10
							1.6	1.0	0.33	.....	10	10
5.0	3.0	1.0	1.39	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	2.8	0.7	0.83	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5.0	2.8	0.7	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5.0	1.6	0.3	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5.0	3.3	1.0	0.83	10	29.00	1.00	2.6	1.7	0.33	.....	.....	10
5.0	2.7	0.8	1.11	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5.0	2.0	0.7	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5.0	2.4	0.9	1.11	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5.0	2.0	0.5	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	3.2	0.8	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	3.0	1.0	1.11	10	32.00	1.00	3.1	2.0	0.33	.....	.....	10
5.0	1.8	0.5	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5.0	1.6	0.5	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10
5.0	1.6	0.4	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5.0	2.6	0.8	0.83	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5.0	2.2	1.0	1.11	10	33.00	1.00	3.2	2.1	0.33	.....	.....	10
5.0	1.5	0.3	0.83	10	14.00	1.00	1.1	0.7	0.33	.....	25	10
5.0	2.4	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5.0	2.3	0.8	0.83	10	27.00	1.00	2.3	1.5	0.33	.....	.....	10
5.0	2.1	0.5	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	1.5	0.4	0.83	10	15.00	1.00	1.3	0.8	0.33	.....	25	10
5.0	3.5	1.0	1.94	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5.0	2.4	0.5	0.83	10	25.00	1.00	2.0	1.3	0.33	.....	.....	10
5.0	2.0	0.6	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	2.3	0.8	1.11	10	33.00	1.00	3.2	2.1	0.33	.....	.....	10
5.0	2.0	0.8	0.83	10	32.00	1.00	3.1	2.0	0.33	.....	.....	10
5.0	1.8	0.8	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	4.0	1.5	2.22	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5.0	2.1	0.5	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5.0	2.6	0.8	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5.0	2.0	0.5	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5.0	1.7	0.4	0.83	10	15.00	1.00	1.3	0.8	0.33	.....	25	10
5.0	2.8	0.8	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5.0	2.5	0.6	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	1.8	0.5	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5.0	3.1	0.8	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10

† Minimum 500 watts. ‡ \$1.00 per kw per month.

d D.C.—Service charge \$1.50 per kw per month for first 7½ kw plus \$1.05 per kw for all additional demand.



RECENTLY ACQUIRED HYDRO PLANTS IN NORTHERN ONTARIO

Sandy Falls, Mattagami R. 4,900 hp
 Upper Notch, Montreal R. 13,000 hp
 Matabitchuan, Matabitchuan R. 13,200 hp
 Hound Chute, Montreal R. 5,340 hp

Wawaitin, Mattagami R. 14,900 hp
 Indian Chute, Montreal R. 4,500 hp
 Lower Sturgeon, Mattagami R. . 8,000 hp
 Fountain Falls, Montreal R. .. 3,000 hp

APPENDIX I

GENERATING STATIONS IN NORTHERN ONTARIO

Operated by The Hydro-Electric Power Commission of Ontario
on Behalf of the Province in the case of the
Northern Ontario Properties

In the Annual Report for 1944 the list of generating stations published did not include the generating stations in the Timiskaming district, which were acquired by the Commission in December 1944. The following list includes all stations operated by the Commission as parts of the Northern Ontario Properties.

The generating stations are grouped under the districts to which they belong and particulars are given of the hydraulic features of the developments, the turbines, the generators, the exciters and the step-up and step-down transformers. Transmission line mileage is route or structure mileage not circuit mileage.

Abbreviations

hp	..	..	..	..	..	horsepower
kw	..	..	..	..	..	kilowatts
kva	..	..	..	..	..	kilovolt-amperes
kv	..	..	..	..	..	kilovolts
ft	..	..	..	..	..	foot or feet
rpm	..	..	..	..	..	revolutions per minute

The generating stations of the Commission are all water power developments and are listed as encountered ascending the respective rivers and tributaries. The Abitibi district of the Northern Ontario Properties and four generating stations of the Timiskaming district operate at 25 cycles. Other northern plants operate at 60 cycles, including the generating stations of the Thunder Bay system which supply power to the Rainy River district and the Longlac mining area.

NOTE:—A list of generating stations operated by The Commission on behalf of municipalities comprising the Southern Ontario and Thunder Bay Systems was published in the Thirty-seventh Annual Report.

NORTHERN ONTARIO PROPERTIES

GENERAL—Held and operated by The Hydro-Electric Power Commission in trust for the Province of Ontario. Six districts serve mining areas and municipalities in northern Ontario.

The *Abitibi district* comprises the area that can be served from a 132 kv transmission line extending from the Abitibi Canyon power development to Sudbury. Power at 25 cycles is transmitted from developments on the Abitibi river to Northern Ontario mining districts and the International Nickel Company.

The *Timiskaming district* comprises the drainage basins of the Matabitchuan river, the Montreal river (Timiskaming) and that portion of the Mattagami river basin south of Smooth Rock falls. There are eight hydro-electric generating stations in this district and one hydro-pneumatic plant which produces compressed air for commercial use in the Cobalt area. These properties were purchased by the Commission from the Northern Ontario Power Company in 1944.

The *Sudbury district* serves the territory adjacent to the city of Sudbury, including the mining area known as Sudbury Basin. Power is obtained from developments on the Wanapitei and Sturgeon rivers, respectively acquired by The Commission from the Wahnapiatae Power Company in April 1930, and from the Abitibi Power and Paper Company Limited in August, 1937.

The *Nipissing district* includes municipalities lying immediately to the east of lake Nipissing. Power is obtained from developments on the South River. Power rights and plant formerly owned by Nipissing Power Company, controlled by Electric Power Company, Limited. Commission assumed control March, 1916, when the latter company and all its subsidiaries were acquired by the Ontario Government.

The *Patricia district* combines the Patricia and St. Joseph districts. The former was established to supply power to the Red Lake mining district. Power is obtained from a development on the English river. The latter was established to supply power to Central Patricia and Pickle Crow Mining Companies. Power is obtained from a development on the Albany River.

The *Rainy River district* serves the Steep Rock iron mines by a transmission line 120 miles long, west of Port Arthur. Power is obtained from developments on the Nipigon river of the Thunder Bay system.

TRANSMISSION LINES—132 and 110 kv = 906.27 miles, 44 kv = 588.55 miles, 26.4—11 kv = 409.50 miles.

TRANSFORMER STATIONS—Total capacity in 58 stations operated by the Commission = 558,592 kva as follows: 14—step-up 283,300 kva; 32—step-down 252,975 kva.

ABITIBI DISTRICT

Abitibi Canyon Generating Station

Situated on the Abitibi river approximately seventy miles north of Cochrane. Formerly property of the Ontario Power Service Corporation. Commission assumed control April, 1933, and completed installation of two generators which were placed in operation in May and December, 1933; one unit installed in 1935; final two units installed in 1936. Unit No. 3 was dismantled and re-installed at DeCew Falls, 25-cycle plant. Water conveyed from head works to turbines through steel-plate penstocks, 18 ft in diameter. Normal operating head, 237 ft.

Turbines—Four 66,000 hp Canadian Allis-Chalmers, Francis type, vertical shaft, 150 rpm. Total capacity, 264,000 hp.

Auxiliary Turbine—One 600 hp Canadian Allis-Chalmers, Francis type, 750 rpm.

Generators—Four 48,500 kva Canadian General Electric Company, 3-phase, 25-cycle, 13,800 volts, direct connected to turbines. Total capacity, 194,000 kva.

Auxiliary Generator—One 500 kva Canadian General Electric Company.

Exciters—Four 180 kw, 250 volt, direct connected to generators.

Pilot Exciters—Four 7 kw, 250 volts, direct connected to exciters.

Transformers—Four banks = twelve 16,000 kva Canadian General Electric Company, single-phase, 13.8 to 76.2 kv to operate at 132 kv star connected. Total capacity, 192,000 kva.

TIMISKAMING DISTRICT

Matabitchuan Generating Station

Situated on the Matabitchuan river about two miles upstream from Lake Timiskaming. The main dam is of concrete gravity type backed by rock fill. A canal conveys the waters to a concrete intake, thence through two steel penstocks to the turbines. Original construction in 1910, the turbines were replaced in 1923. Purchased by the Commission from the Northern Ontario Power Company in 1944. Normal operating head 312 ft.

Turbines—Four 3,300 hp Dominion Engineering Company, Francis type, single runner, spiral casing, horizontal shaft, 600 rpm. Total capacity, 13,200 hp.

Auxiliary Turbines—Two 180 hp A. Doble Company, impulse wheel type, horizontal shaft, 475 rpm.

Generators—Four 1,875 kva Canadian General Electric, 3-phase, 60-cycle, 2,400 volt. Total capacity, 7,500 kva.

Exciters—Two 100 kw Canadian Allis Chalmers, turbine driven, 125 volt.

Transformers—Four banks=four 1,875 kva Canadian Westinghouse, 3-phase, 2.4 to 44 kv. Total capacity 7,500 kva.

Upper Notch Generating Station

Situated on the Montreal river about 10 miles upstream from lake Timiskaming. Power house and headworks integral with dam. Constructed in 1930. Purchased by the Commission from the Northern Ontario Power Company in 1944. Normal operating head 48 ft.

Turbines—Two 6,500 hp Allis-Chalmers, Francis type, vertical shaft, 125 rpm. Total capacity 13,000 hp.

Generators—Two 6,500 kva Swedish General Electric, 3-phase, 25-cycle, 11,000 volt. Total capacity 13,000 kva.

Exciters—Two 94 kw Swedish General Electric, direct connected to generators, 125 volt.

Transformers—One bank=three 4,500 kva English Electric, single-phase, 11 to 63.5 kv for operation 110 kv star connected. Total capacity, 13,500 kva.

Fountain Falls Generating Station

Situated on the Montreal river about 16 miles upstream from lake Timiskaming. Power house and headworks integral with dam. Canal excavated in left bank conveys waters to intake. Constructed in 1914. Purchased by the Commission from the Northern Ontario Power Company in 1944. Normal operating head 30 ft.

Turbines—Two 1,500 hp I.P. Morris, Francis type, vertical shaft, 150 rpm. Total capacity 3,000 hp.

Generators—Two 1,250 kva Swedish General Electric, 3-phase, 60-cycle, 11,000 volt. Total capacity 2,500 kva.

Exciters—Two 52 kw Swedish General Electric, motor driven, 125 volt, 1,150 rpm.

Transformers—Power is transmitted at generator voltage.

Hound Chute Generating Station

Situated on the Montreal river 20 miles upstream from lake Timiskaming. Concrete dam with spillway section. Intake and power house an integral unit some 1,400 feet south of dam. Water is conveyed through canal to intake. Constructed in 1910. Purchased by the Commission from the Northern Ontario Power Company in 1944. Normal operating head 32 feet.

Turbines—Four 1,335 hp William Kennedy, Francis type, vertical shaft, 150 rpm. Total capacity, 5,340 hp.

Auxiliary Turbines—Two 100 hp, William Kennedy, Francis type, vertical shaft, 500 rpm. Total capacity, 200 hp.

Generators—Four 875 kva Swedish General Electric, 3-phase, 60-cycle, 11,000 volt. Total capacity, 3,500 kva.

Exciters—Two 60 kw Swedish General Electric, turbine driven, 110 volt: one 75 kw Siemens Electric, motor driven, 110 volt, 900 rpm.

Transformers—Power is transmitted at generator voltage.

Indian Chute Generating Station

Situated on the Montreal river 10 miles upstream from the town of Elk Lake. Concrete dam flanked by concrete spillway. Water conveyed to turbines by two wood-stave pipes. Constructed in 1923. Purchased by the Commission from the Northern Ontario Power Company in 1944. Normal operating head 45 ft.

Turbines—One 2,250 hp Boving Company; one 2,250 hp William Kennedy; both Francis type, double runner, horizontal shaft, 300 rpm. Total capacity 4,500 hp.

Generators—Two 1,800 kva Canadian Westinghouse Company, 3-phase, 60-cycle, 2,300 volt. Total capacity, 3,600 kva.

Exciters—Two 30 kw Canadian Westinghouse, belt driven, 125 volt, 1,100 rpm.

Transformers—One bank = three 1,500 kva Canadian Westinghouse, single-phase, arranged for 2.2 kv "Y" to 44kv delta operation. Total capacity, 4,500 kva.

Lower Sturgeon (Mattagami River) Generating Station

Situated on the Mattagami river 30 miles downstream from Timmins. Headworks and power house integral part of the concrete dam. Constructed in 1923. Purchased by the Commission from the Northern Ontario Power Company in 1944. Normal operating head 46 feet.

Turbines—Two 4,000 hp Dominion Engineering Company, Francis type, vertical shaft, 136.3 rpm. Total capacity, 8,000 hp.

Generators—Two 4,000 kva Canadian General Electric, 3-phase, 25-cycle, 2,300 volt. Total capacity, 8,000 kva.

Exciters—Two 58 kw Canadian General Electric, 125 volt, direct connected to generators.

Transformers—Two banks = two 4,000 kva, 3-phase, 2.3 to 44 kv Total capacity, 8,000 kva.

Sandy Falls Generating Station

Situated on the Mattagami river seven miles downstream from Timmins. Concrete dam with spillway section. Intake at left bank with entrances to three penstocks controlled by butterfly valves. Water conveyed to unit No. 1 by a steel penstock and to units Nos. 2 and 3 by wood-stave pipes each provided with a surge tank. Purchased by the Commission from the Northern Ontario Power Company in 1944. Normal operating head 34 ft.

Turbines—Two 1,200 hp S. Morgan Smith, Francis type, double runner, horizontal shaft, 214 rpm installed in 1911. One 2,500 hp I.P. Morris, Francis type, vertical shaft, 136.3 rpm installed in 1916. Total capacity, 4,900 hp.

Generators—Two 950 kva Canadian Westinghouse, horizontal, one 1,875 kva Canadian General Electric, vertical; all 3-phase, 25-cycle, 12,000 volt, direct connected to turbines. Total capacity, 3,775 kva.

Exciters—Two 30 kw Canadian Westinghouse, 125 volt, direct connected to generators; one 100 kw Canadian General Electric, motor driven, 125 volt, 750 rpm.

Transformers—Power is transmitted at generator voltage to Shumacher transformer station about 7 miles distant.

Wawaitin Generating Station

Situated on the Mattagami river about 16 miles upstream from Timmins. Main dam has two concrete sluiceways both flanked by rock fill sections with concrete core. A canal conveys the water to the intake, thence through wood-stave pipes provided with surge tanks, and finally through steel penstocks, to the turbines. All penstocks have butterfly valve controls. Purchased by the Commission from the Northern Ontario Power Company in 1944. Normal operating head 125 feet.

Turbines—Two 3,450 hp S. Morgan Smith, Francis type, double runner, horizontal shaft, 365 rpm, installed in 1912. Two 4,500 hp S. Morgan Smith, Francis type, vertical shaft, 375 rpm. (one installed in 1913 and one in 1918). Total capacity, 14,900 hp.

Auxiliary Turbines—Two 150 hp, S. Morgan Smith, horizontal shaft, 600 rpm.

Generators—Two 3,750 kw vertical and two 2,500 kw horizontal, Canadian Westinghouse, 3-phase, 25-cycle, 12,000 volt, direct connected to turbines. Total capacity 12,500 kw.

Exciters—Two 70 kw turbine driven, 600 rpm and one 150 kw motor driven, Canadian Westinghouse, 125 volt, 730 rpm.

Transformers—Power is transmitted at generator voltage.

Kirkland Lake Frequency-Changer Station

Situated in Kirkland Lake. This frequency-changer station includes three 25/60-cycle sets. These sets are used to exchange power from the 25- and 60-cycle generating stations of the Timiskaming district. Two sets installed in 1920, the third set installed in 1926. Acquired by the Commission November, 1944.

Motors—1st unit—one 1,125 kva; 2nd unit—one 2,200 kva, General Electric, 3-phase, 25-cycle, 12,000 volt; 3rd unit—one 4,250 kva Swedish General Electric, 3-phase, 25-cycle, 11,000 volt; all 300 rpm. Total capacity, 7,575 kva.

Generators—1st unit—one, 1,250 kva; 2nd unit—2,500 kva General Electric, 3rd unit—one 4,250 kva Swedish General Electric, 3-phase, 60-cycle, 2,300 volt, direct connected to motors. Total capacity, 8,000 kva.

Ragged Chute Hydro-Pneumatic Plant

Situated on the Montreal river (Timiskaming) about 8 miles south of Cobalt between Hound Chute and Fountain Falls generating stations. This plant at present produces compressed air by hydraulic means, which is delivered through steel pipe lines to commercial customers in the Cobalt area.

SUDBURY DISTRICT

McVittie Generating Station

Situated on Wanapitei river, approximately 26 miles from Sudbury. Formerly property of Wahnapiatae Power Company. In operation 1912. Commission assumed control April, 1930. Water conveyed through canal to head works, steel penstocks to turbines. Average operating head 38 ft.,

Turbines—Two 1,800 hp William Kennedy, Francis type, horizontal shaft, 257 rpm. Total capacity, 3,600 hp.

Auxiliary Turbine—One 75 hp William Kennedy, Francis type.

Generators—Two 1,250 kva Canadian General Electric Company, 3-phase, 60-cycles, 2,300 volts, direct connected to turbines. Total capacity, 2,500 kva.

Exciters—Two 75 kw Canadian General Electric Company, one direct connected to auxiliary turbine, one motor driven.

Transformers—One bank = three 625 kva Canadian General Electric Company, single-phase, 2.3 to 23 kv. Total capacity, 1,875 kva.

Coniston Generating Station

Situated on Wanapitei river, approximately ten miles east of Sudbury. Formerly property of Wahnapiatae Power Company. In operation 1905. Commission assumed control April, 1930. Water conveyed through canal to head works, steel penstocks to turbines. Average operating head, 53 ft.

Turbines—One 1,200 hp, one 1,600 hp, each 300 rpm, Jenckes; one 3,500 hp, 257 rpm, Allis-Chalmers, all Francis type, horizontal shaft. Total capacity, 6,300 hp.

Auxiliary Turbines—One 35 hp, one 70 hp Jenckes, Francis type. Total capacity, 105 hp.

Generators—One 800 kva, one 1,250 kva, one 2,500 kva Canadian General Electric Company, 3-phase, 60-cycles, 2,300 volts, direct connected to turbines. Total capacity, 4,550 kva.

Exciters—One 25 kw, one 55 kw, turbine driven, one 100 kw, motor driven, Canadian General Electric Company.

Transformers—Two banks = six 800 kva Canadian General Electric Company, single-phase, 2.3 to 23 kv; one 8,000 kva, three-phase, 24 to 110 kv, English Electric Company. Total capacity, 12,800 kva.

Stinson Generating Station

Situated on Wanapitei river, approximately eight miles up stream from Coniston generating station. Formerly property of Wahnapitae Power Company. In operation 1925. Commission assumed control April, 1930. Water conveyed through canal to head works, steel penstocks to turbines. Average operating head, 52.5 ft.

Turbines—Two 3,500 hp Allis-Chalmers, Francis type, horizontal shaft, 240 rpm. Total capacity, 7,000 hp.

Auxiliary Turbine—One 150 hp Allis-Chalmers, Francis type.

Generators—Two 2,500 kva Canadian General Electric Company, 3-phase, 60-cycles, 2,300 volts, direct connected to turbines. Total capacity, 5,000 kva.

Exciters—One 100 kva turbine driven, one 100 kva, motor driven, Canadian General Electric Company, 125 volts.

Transformers—One bank = three 1,667 kva Canadian General Electric Company, single-phase, 2.3 to 23 kv. Total capacity, 5,000 kva.

Crystal Falls Generating Station

Situated on the Sturgeon river about ten miles up stream and north of the town of Sturgeon Falls. Formerly property of the Abitibi Power and Paper Company. Commission assumed control in August, 1937. Power house integral part of dam. Normal operating head, 33ft.

Turbines—Four 2,600 hp I.P. Morris, Francis type, vertical shaft, 138.5 rpm. Total capacity, 10,400 hp.

Generators—Four 2,125 kva Westinghouse Electric Company generators, 3-phase, 60-cycle, 2,300 volt, direct connected to turbines.

Exciters—One 68 kw, 125 volt, motor driven, Canadian Westinghouse Company.

Transformers—One bank = three 3,000 kva Canadian Westinghouse Company, single-phase, 2.3 to 22 kv; one bank = one 8,000 kva English Electric Company, 3-phase, 24 to 110 kv. Total capacity, 17,000 kva.

NIPISSING DISTRICT

Nipissing Generating Station

Situated on the South river, about 1½ miles from the village of Nipissing. Formerly the property of Nipissing Power Company. Control assumed by Commission March, 1916. Water conveyed to plant through canal, wood-stave pipe line and steel penstock provided with surge tank. Average operating head, 90 ft.

Turbines—Two 1,250 hp Jenckes Machine Company, Francis type, horizontal shaft, 450 rpm. Total capacity, 2,500 hp.

Generators—One 1,400 kva Canadian Westinghouse Company; one 1,250 kva Swedish General Electric Company, 3-phase, 60-cycles, 2,300 volts, direct connected to turbines. Total capacity, 2,650 kva.

Exciters—One 17.5 kw Swedish General Electric Company, 115 volts; one 21 kw Canadian Westinghouse Company, 125 volts, direct connected to main generators; one 37½ kw motor driven.

Transformers—One bank = three 900 kva Packard Electric Company, single-phase, 2.3 to 22kv. Total capacity, 2,700, kva.

Bingham Chute Generating Station

Situated on South river, about two miles from Powassan. Constructed by Commission. In operation December, 1923. Water conveyed to plant through wood-stave pipe line. Average operating head, 47 ft.

Turbines—Two 650 hp William Kennedy, Francis type, horizontal shaft, 450 rpm. Total capacity, 1,300 hp.

Generators—Two 450 kva Canadian Westinghouse Company, 3-phase, 60-cycles, 2,200 volts, direct connected to turbines. Total capacity, 900 kva.

Exciters—Two 12.5 kw Canadian Westinghouse Company, direct connected to generators.

Transformers—One bank = three 300 kva Canadian Westinghouse Company, single-phase, 2.2 to 22 kv. Total capacity, 900 kva.

Elliott Chute Generating Station

Situated on South river, approximately $1\frac{1}{2}$ miles up stream from Bingham Chute plant Constructed by Commission. In operation October, 1929. Semi-automatic. Remote controlled from Bingham Chute station. Water conveyed to plant through wood-stave pipe line. Average operating head, 39 ft.

Turbine—One 1,800 hp S. Morgan Smith-Inglis Company, propeller type, vertical shaft, 327 rpm.

Generator—One 1,800 kva Swedish General Electric Company, 3-phase, 60-cycles, 2,300 volts, direct connected to turbine.

Exciter—One 22 kw Swedish General Electric Company, direct connected, 125 volts.

Transformers—One bank = three 650 kva English Electric Company, single-phase, 2.3 to 23 kv. Total capacity, 1,950 kva.

PATRICIA DISTRICT

Ear Falls Generating Station

Situated at Ear Falls on the English river. Constructed by Commission. In operation December, 1929. Water conveyed from Lac Seul conservation dam to power house through four wood-stave pipes and two concrete conduits. Normal operating head 36, ft.

Turbines—One 5,000 hp, propeller type, 180 rpm, Dominion Engineering Works; one 5,000 hp, propeller type, 180 rpm, and one 7,500 hp, Kaplan type, 150 rpm, Morgan-Smith-Inglis; all vertical shaft. Total capacity, 17,500 hp.

Generators—One 5,000 kva, one 6,000 kva Canadian Westinghouse Company; one 4,500 kva Ateliers de Construction Oerlikon, 3-phase, 60-cycles, 6,600 volts, all direct connected to turbines. Total capacity, 15,500 kva.

Exciters—One 65 kw, one 75 kw, and one 5 kw pilot, 125 volt, direct connected, Canadian Westinghouse Company; one 48 kw, 125 volt, Ateliers de Construction Oerlikon, direct connected.

Transformers—One bank = three 750 kva, single-phase, English Electric Company; one bank = three 750 kva, single-phase, Commonwealth Electric Corporation; one bank = three 1,500 kva, single-phase, Moloney Electric Company; one bank = three 2,000 kva, single-phase, Packard Electric Company. Total capacity, 15,000 kva.

Rat Rapids Generating Station

Situated at Rat Rapids at the outlet of lake St. Joseph, on the Albany river. Constructed by Commission. In operation March, 1935. Concrete turbine chamber and generating room substructure. Rock filled timber crib dams. Average operating head, 14.5 ft.

Turbine—One 1,750 hp Dominion Engineering Works, propeller type, vertical shaft, 128.5 rpm.

Generator—One 1,500 kva Canadian General Electric Company, 3-phase, 60-cycles, 2,300 volts, direct connected to turbine.

Exciters—One 32 kw and one 2.5 kw pilot exciter direct-connected, Canadian General Electric Company.

Transformers—One bank = three 333 kva Packard Electric Company, single-phase, 6.6 to 22 kv; one bank = three 500 kva Packard Electric Company, single-phase 2.3 to 22 kv. Total capacity, 2,500 kva.

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MAP OF PORTION OF THE
PROVINCE OF ONTARIO
SHOWING
TRANSMISSION LINES AND STATIONS
IN DISTRICTS OF THE
NORTHERN ONTARIO PROPERTIES
AND IN THE
THUNDER BAY SYSTEM

Scale : 25 Miles — 1 inch

LEGEND

- High-Voltage Lines.....
- Low-Voltage Lines.....
- Distribution Lines.....
- Interconnected Lines not Owned by H.E.P.C.....
- Lines not interconnected with H.E.P.C.....
- Existing Hydro-Electric Generating Stations.....
- Proposed Hydro-Electric Generating Stations.....
- Other Plants Supplying Power to H.E.P.C.....
- High-Voltage Stations.....
- Frequency Changer Stations.....
- Municipalities.....
- Distributing Stations.....
- Existing Regulating Dams.....
- Proposed Regulating Dams.....



PORTION OF
NORTHWESTERN
ONTARIO
FOR TRANSMISSION LINES SEE MAP OF
NORTHERN ONTARIO PROPERTIES
Scale: 100 miles = 1 inch

THE HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO
MAP OF PORTION OF THE
PROVINCE OF ONTARIO
SHOWING
TRANSMISSION LINES AND STATIONS
OF THE
SOUTHERN ONTARIO SYSTEM

Scale: 100 miles or 15.78 miles = 1 inch

- LEGEND
- High-Voltage Lines
 - Low-Voltage Lines
 - Distribution Lines
 - Interconnected Lines not Owned by H.E.P.C.
 - Existing Hydro-Electric Generating Stations
 - Proposed Hydro-Electric Generating Stations
 - Other Plants Supplying Power to H.E.P.C.
 - High-Voltage Stations
 - Frequency Converter Stations
 - Municipalities
 - Distributing Stations
 - Existing Regulating Dams
 - Proposed Regulating Dams

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